

POWEREX INC

7294621 POWEREX INC

查询BCR50A12供应商

91 DE

7294621 0001813 1

捷多邦 专业PCB打样工厂, 24小时加急出货

91D 01813 D

TRIACS

$I_{T(RMS)}$ $T_c=80^\circ C$ 360° Conduction (Amps)	I_{TSM} (Amps) 50 Hz 60 Hz	I_{TSM} (Amps) 50 Hz 60 Hz	I_{TSM} (Amps) 50 Hz 60 Hz	I_{TSM} (Amps) 50 Hz 60 Hz	I_{TSM} (Amps) 50 Hz 60 Hz	I_{TSM} (Amps) 50 Hz 60 Hz	I_{TSM} (Amps) 50 Hz 60 Hz	I_{TSM} (Amps) 50 Hz 60 Hz	I_{TSM} (Amps) 50 Hz 60 Hz	I_{TSM} (Amps) 50 Hz 60 Hz	I_{TSM} (Amps) 50 Hz 60 Hz
16 $T_c=82^\circ C$	155	170	121	3	200-600	25	1.6	2	-40 to 125	1.5 x	.2
25 $T_c=90^\circ C$	230	250	260	1	200-600	35	1.58	2.4	-40 to 115	3.5	.2
25 $T_c=90^\circ C$	230	250	260	2	200-600	35	1.58	1.4	-40 to 125	3.5	.2
25 $T_c=75^\circ C$	230	250	260	1	200-600	35	1.58	1.8	-40 to 115	3.5	.2
25 $T_c=75^\circ C$	230	250	260	1	200-600	35	1.58	1.95	-40 to 115	3.5	.2
25 $T_c=71^\circ C$	230	250	260	1	200-600	35	1.58	1.95	-40 to 115	3.5	.2
25 $T_c=75^\circ C$	230	250	260	1	200-600	35	1.58	1.95	-40 to 115	3.5	.2
25 $T_c=70^\circ C$	240	265	375	5	400-600	45	2.5	2	-40 to 125	2.5 x	.2
40 $T_c=81^\circ C$	275	300	375	.2	200-600	57	1.38	1.65	-40 to 115	3.5	.2
40 $T_c=81^\circ C$	275	300	375	1	200-600	56	1.38	1	-40 to 115	3.5	.2
40 $T_c=70^\circ C$	275	300	375	1	200-600	56	1.38	1.15	-40 to 115	3.5	.2
40 $T_c=70^\circ C$	275	300	375	1	200-600	56	1.38	1.15	-40 to 115	3.5	.2
40 $T_c=68^\circ C$	275	300	375	1	300-600	56	1.38	1.3	-40 to 115	3.5	.2
40 $T_c=74^\circ C$	275	300	375	1	200-600	56	1.38	1	-40 to 115	3.5	.2
40 $T_c=81^\circ C$	275	300	375	1	200-600	56	1.38	1.15	-40 to 115	3.5	.2
50 $T_c=83^\circ C$	730	800	2600	10	200-800	70	1.5 $T_J=125^\circ C$	.6	-40 to 125	2.5 x	.2
70 $T_c=87^\circ C$	1000	1100	5000	15	200-1200	110	2.1 $T_J=125^\circ C$	.3	-40 to 125	3 x	.2
100 $T_c=84^\circ C$	1000	1100	5000	15	200-1200	140	2.35 $T_J=125^\circ C$	.2	-40 to 125	3 x	.2
150 $T_c=96^\circ C$	1820	2000	16,000	15	200-1200	220	1.8 $T_J=125^\circ C$	.12	-40 to 125	3 x	.25
150 $T_c=92^\circ C$	1820	2000	16,000	15	200-1200	220	1.65 $T_J=125^\circ C$	.15	-40 to 125	3 x	.25
300 $T_c=89^\circ C$	2730	3000	37,000	30	200-1200	420	1.5 $T_J=125^\circ C$	.09	-40 to 125	3 x	.25
300 $T_c=89^\circ C$	2730	3000	37,000	30	200-1200	420	1.5 $T_J=125^\circ C$	.09	-40 to 125	3 x	.25

* = Isolated Tab

° = Tentative Specifications

X = 25°C Value

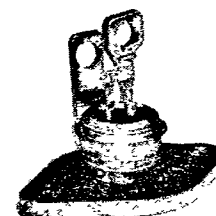
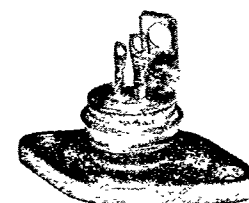


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Critical Rate of Rise of Off State Voltage (Min) dV/dt (V/ μ sec)	dV/dt (V/ μ sec)	Holding and Latching Current (Max) $T_J(\text{Min})$ to $T_J(\text{Max})$ DC		Gate Current Igr Max (mA) @ $T_J(\text{Min})$	@ $T_J=25^\circ\text{C}$	PACKAGE INFORMATION		TYPE NO.
		Holding Current (mA)	Latching Current (mA)			STYLE	Outline	
—	6-10	—	—	—	30	Isolated Plastic With Fast-ons	—	*BCR16HM*
50	5	75-150	100-400	80	50	Isolated TO-3 Mounting Flange	TO-239AB	SC160
50	5	75-150	100-400	80	50	Power Pak Non-Isolated Tab	TO-220AB	SC129
50	5	75-150	100-400	150	75	Non-Isolated Stud	—	SC260
50	5	75-150	100-400	150	75	Isolated Stud With Press on MT2 Terminal	—	SC260-2
50	5	75-150	100-400	80	50	Isolated Stud With Solder Ring MT2 Terminal	—	SC260-3
50	5	75-150	100-400	80	50	Isolated TO-3 Flange	—	SC260-4
50	5	75-150	100-400	80	50	Non-Isolated TO-3 Flange	—	SC260-5
50	5	75-150	100-400	80	50	Press Fit	—	SC261
—	20	—	—	—	50	Isolated Plastic With Fast-Ons	—	*BCR30GM*
50	5	75-150	100-400	150	80	Isolated TO-3 Mounting Flange	TO-239AB	SC165
50	5	75-150	100-400	120	80	Non-Isolated Stud	—	SC265
50	5	75-150	100-400	120	80	Isolated Stud With Press on MT2 Terminal	—	SC265-2
50	5	75-150	100-400	120	80	Isolated Stud With Solder Ring MT2 Terminal	—	SC265-3
50	5	75-150	100-400	120	80	Isolated TO-3 Flange	—	SC265-4
50	5	75-150	100-400	120	80	Non-Isolated TO-3 Flange	—	SC265-5
50	5	75-150	100-400	120	80	Press Fit	—	SC266
50	20	—	—	—	100	M8 x 1.25 Stud	Metric	*BCR50A
100	20	—	—	—	200	M12 x 1.5 Stud	Metric	*BCR70B
100	20	20-65 Typical	—	—	200	Press Pak	14.5 x 43 mm	*FB100D
100	50	20-65 Typical	—	—	300	Press Pak	14.5 x 43 mm	*FB150D
100	50	15-55 Typical	—	—	300	M20 x 1.5 Stud	Metric	*BCR150B
100	100	20-60 Typical	—	—	300	M24 x 1.5 Stud	Metric	*BCR300B
100	100	—	—	—	300	Press Pak	14.5 x 50 mm	*FB300D



Non-isolated stud



Non-isolated
JEDEC TO-3 flange

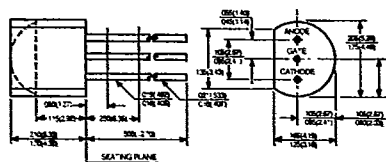


Press fit

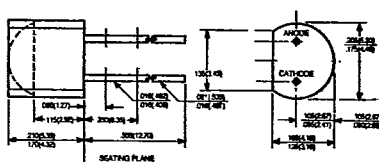


TRIACS Outline Drawings

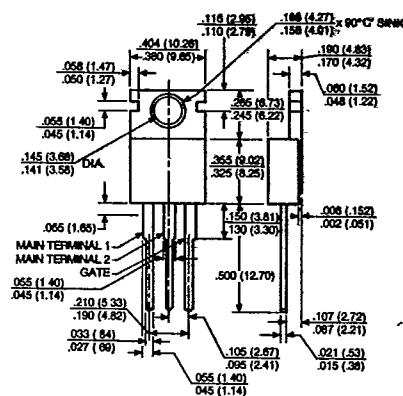
JEDEC TO-92



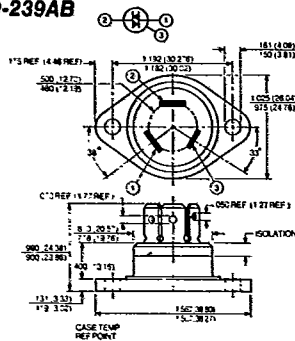
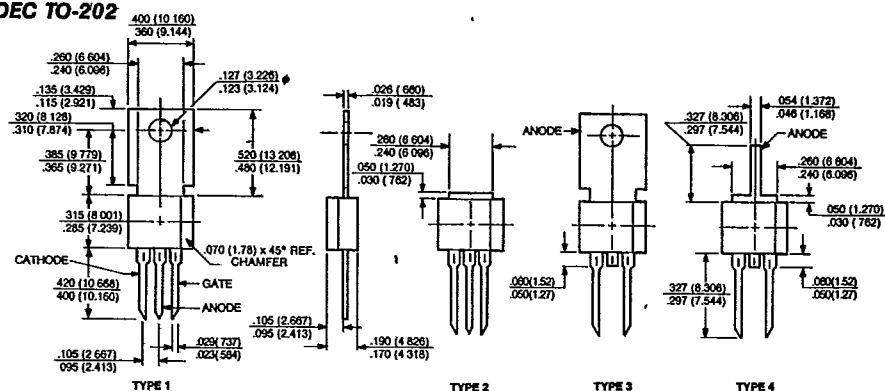
JEDEC Modified TO-92



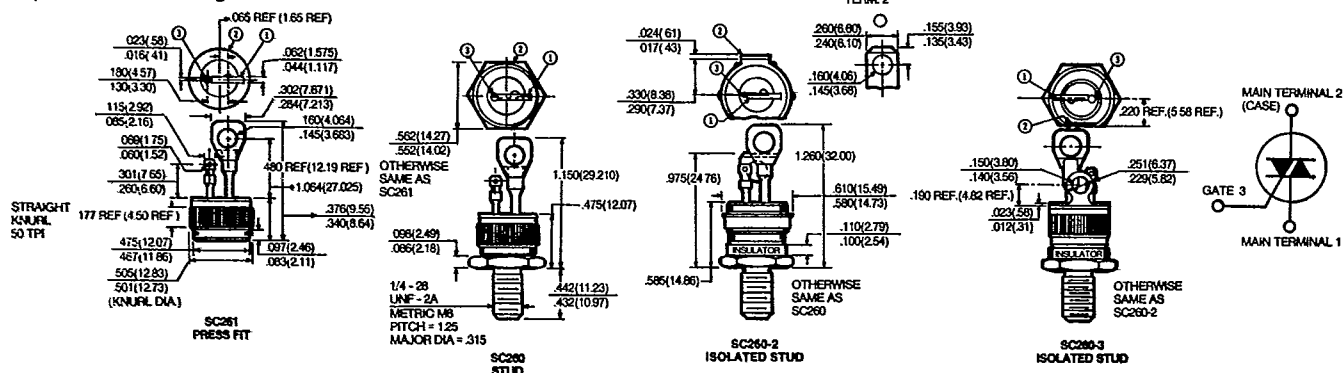
JEDEC TO-220AB



Note: TO-220 standoff distance is less.

JEDEC TO-239AB**JEDEC TO-202**

Special Triac Packages



(Consult factory for flange versions.)

POWEREX INC

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T-91-20

TRIACS

Glass Axial Leaded—Consult Factory

Isolated Plastic with Fast-Ons—Consult Factory

Metric Stud—Consult Factory

M8 × 1.25

M12 × 1.5

M20 × 1.5

M24 × 1.5

Press Pak—Consult Factory

14.5mm × 43mm

14.5mm × 50 mm

Surface Mount—Consult Factory

MP-3

SOT-89





T-91-01

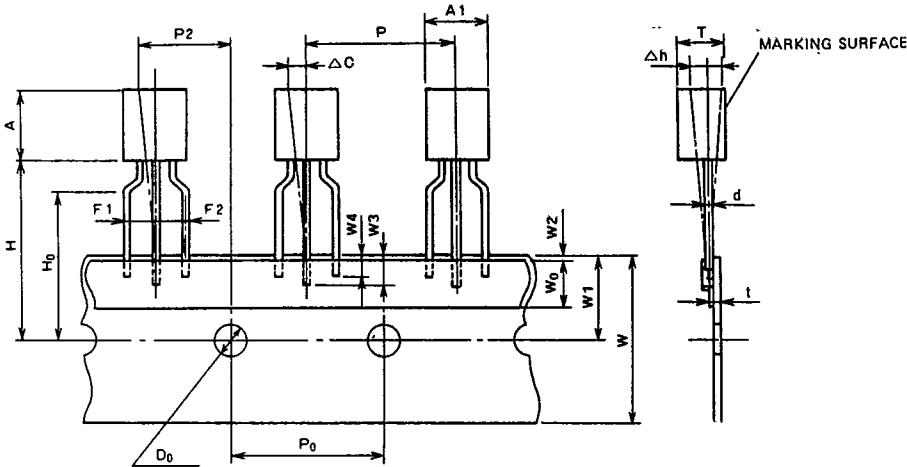
Powerex, Inc., Hillis Street, Youngwood, Pennsylvania 15697 (412) 925-7272
Powerex Europe, S.A., 428 Avenue G. Durand, BP107, 72003 Le Mans, France (43) 41.14.14

Taping

STANDARD SPECIFICATIONS
FOR TAPING OF MOLDED
PACKAGE THYRISTORS AND
TRIACS

TO-92 Package

Thyristor
CR02AM, CR03AM, CR04AM
Triac
BCR1AM



Taping dimensions

Description of symbol	Symbol	Dimensions (Unit:mm)	Remark
Product width	A1	5.0 MAX	
Product height	A	5.0 MAX	
Product thickness	T	3.7 MAX	
Lead wire diameter	d	0.6 MAX	
Sticker lead wire length (1)	W3	2.5 MIN	
Sticker lead wire length (2)	W4	2.0 MIN	
Pitch between products	P	12.7 ± 1.0	
Feed hole pitch	P ₀	12.7 ± 0.3	The cumulative pitch error is ± 1mm per 20 pitches.
Feed hole deviation (1)	P2	6.35 ± 1.3	
Distance between lead wires	F1, F2	2.5 ± 0.4	
Defective product (1)	Δh	0 ± 2.0	
Tape width	W	18.0 ± ^{1.0} _{0.5}	
Sticker tape width	W ₀	6.0 ± 0.5	
Feed hole deviation (2)	W1	9.0 ± 0.5	
Sticker tape deviation	W2	0.5 MAX	
Position of product bottom surface	H	17.5 MIN	
Lynch height of lead wire	H ₀	16.0 ± 0.5	
Feed hole diameter	D ₀	4.0 ± 0.2	
Tape thickness	t	0.7 ± 0.2	
Defective product (2)	ΔC	0 ± 1.0	

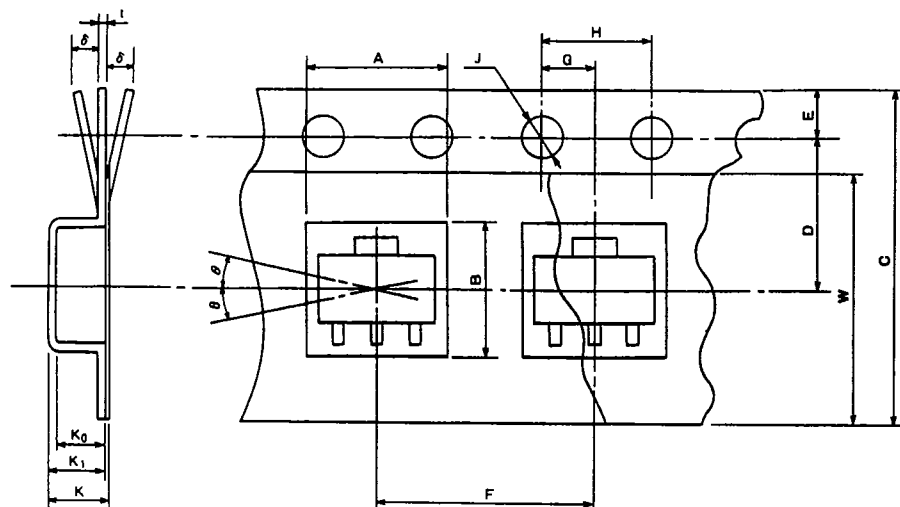




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Powerex Semiconductor Data Book
Taping



SOT-89 Package

Thyristor
CR08AS

Taping dimensions

Description of symbol		Symbol	Dimensions/angles Unit:mm	Remark
Parts insertion	Height	A	5.0 ± 0.1	Cross-section of the surface 0.5mm above the inner bottom
	Width	B	4.6 ± 0.1	Cross-section of the surface 0.5mm above the inner bottom
Concave square hole	Depth	K_0	1.8 ± 0.1	Inner space
	Pitch	F	8.0 ± 0.1	Cumulative error +0.1/-0.3 MAX/10 pitches
Round feed hole	Diameter	J	$\phi 1.5 \pm 0.05$	
	Pitch	H	4.0 ± 0.1	Cumulative error +0.1/-0.3 MAX/10 pitches
	Position	E	1.5 ± 0.1	Distance between the tape edge and the hole center
Distance between center lines	Vertical	G	2.0 ± 0.5	Center line of concave square hole and round feed hole
	Horizontal	D	5.65 ± 0.05	Center line of concave square hole and round feed hole
Cover tape	Width	W	$9.5 + 0.3/-0$	Thickness: 0.1 MAX
Carrier tape	Width	C	12 ± 0.2	Warp $\phi 0.3$ MAX
	Thickness	t	0.3 ± 0.05	
	Package hole depth	K_1	2.1 ± 0.1	
Device	Package dimensions	—	—	As shown in (e)
	Inclination	θ	30° MAX.	
Total Thickness		K	2.3 ± 0.1	Total thickness including cover and carrier tapes