

查询8SPR01供应商

DIOTEC ELECTRONICS CORP.
18020 Hobart Blvd., Unit B
Gardena, CA 90248 U.S.A
Tel.: (310) 767-1054 Fax: (310) 767-7958

捷多邦，专业PCB打样工厂，24小时加急出货

Data Sheet No. SESA-801-1B

8 AMP SUPER-EFFICIENT RECTIFIERS

FEATURES

- Glass Passivated for high reliability/temperature performance
- Low switching noise
- Low forward voltage drop
- Low thermal resistance
- High switching capability
- High surge capability

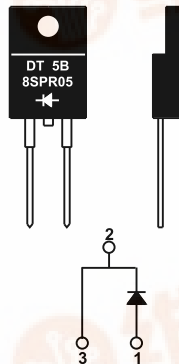
RoHS COMPLIANT

MECHANICAL DATA

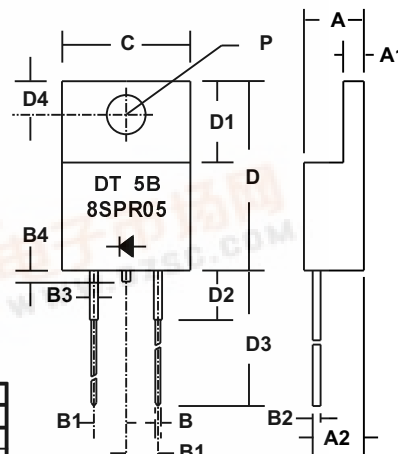
- Case: TO-220 molded epoxy (Fully Insulated)
(U/L Flammability Rating 94V-0)
- Terminals: Rectangular pins w/ standoff
- Solderability: Per MIL-STD 202 Method 208 guaranteed
- Polarity: Diode depicted on product
- Mounting Position: Any
- Weight: 0.06 Ounces (1.7 Grams)

MECHANICAL SPECIFICATION

ACTUAL SIZE OF
TO-220AC PACKAGE



FULLY INSULATED PACKAGE



Sym	Minimum		Maximum	
	in	mm	in	mm
A			0.187	4.75
A1	0.121*	4.75*		
A2	0.14*	3.56*		
B	0.035	0.9	0.043	1.1
B1	0.09	2.3	0.102	2.6
B2	0.025*	0.64*		
B3	0.050*	1.27*		
B4			0.04	1.0
C			0.413	10.5
D	0.59	15.0	0.61	15.5
D1	0.262*	6.6*		
D2			0.16	4.0
D3	0.54	13.7	0.60	15.2
D4	0.108*	2.75*		
P	0.126*	3.2*		

* These dimensions are "Typicals".

ITO - 220AC

SERIES 8SPR01 - 8SPR05

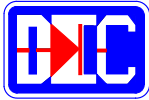
MAXIMUM RATINGS & ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive loads, derate current by 20%.

PARAMETER (TEST CONDITIONS)	SYMBOL	RATINGS					UNITS
Series Number		8SPR01	8SPR02	8SPR03	8SPR04	8SPR05	
Maximum DC Blocking Voltage	V _{RM}	100	200	300	400	500	VOLTS
Maximum RMS Voltage	V _{RMS}	70	140	210	280	350	
Maximum Peak Recurrent Reverse Voltage	V _{RRM}	100	200	300	400	500	
Average Forward Rectified Current @ T _c = 110 °C	I _o	8					AMPS
Peak Forward Surge Current (8.3mS single half sine wave superimposed on rated load)	I _{FSM}	120					
Maximum Forward Voltage at 8 Amps DC	V _{FM}	1.0		1.2			VOLTS
Maximum Average DC Reverse Current @ T _c = 25 °C At Rated DC Blocking Voltage @ T _c = 100 °C	I _{RM}	10 500					μA
Typical Thermal Resistance, Junction to Case	R _{θJC}	1.5					°C/W
Typical Junction Capacitance (Note)	C _J	45					pF
Maximum Reverse Recovery Time (I _F =8.0A, di/dt=50A/μS, T _J =25°C)	T _{RR}	35		45			nSec
Junction Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +150					°C

NOTES: (1) Measured at 1 MHz and an applied reverse voltage of 4 volts.

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Data Sheet No. SESA-801-2B

8 AMP SUPER EFFICIENT RECTIFIERS

RATING & CHARACTERISTIC CURVES FOR SERIES 8SPR01 - 8SPR05

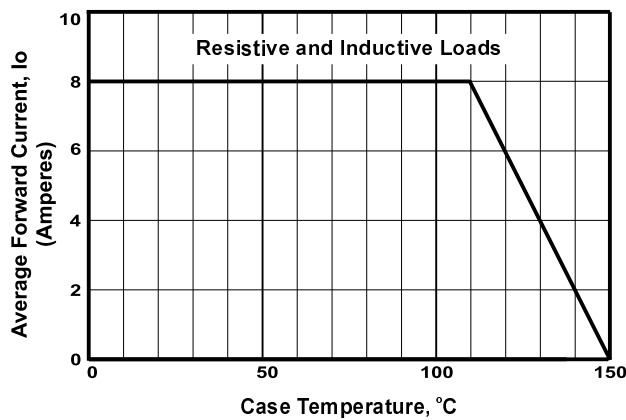


FIGURE 1. FORWARD CURRENT DERATING CURVE

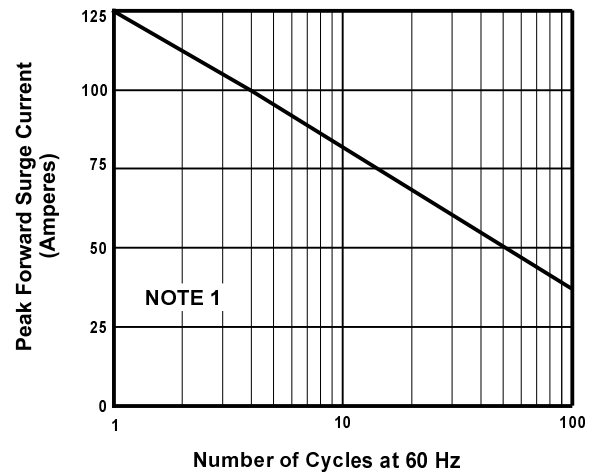


FIGURE 2. MAXIMUM NON-REPETITIVE SURGE CURRENT

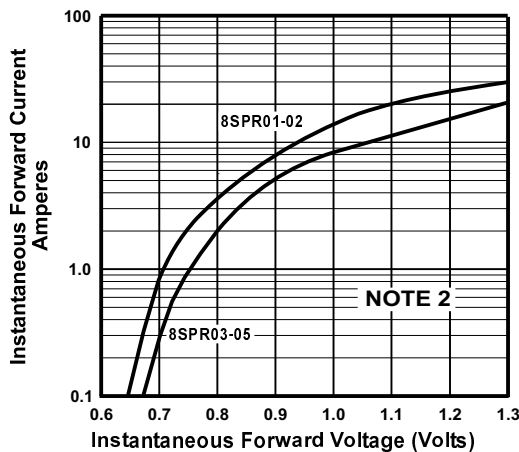


FIGURE 3. TYPICAL FORWARD CHARACTERISTICS

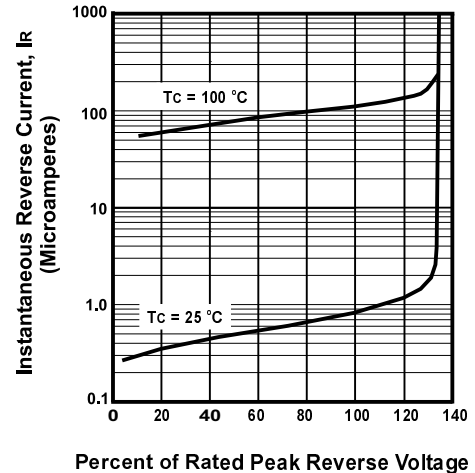


FIGURE 4. TYPICAL REVERSE CHARACTERISTICS

NOTES

- (1) JEDEC Method, 8.3 mSec. Single Half Sine Wave
- (2) $T_J = 25^\circ\text{C}$, Pulse Width = 300 μSec , 2.0% Duty Cycle
- (3) $T_c = 25^\circ\text{C}$, $f = 1\text{ MHz}$, $V_{SIG} = 50\text{ mV P-P}$

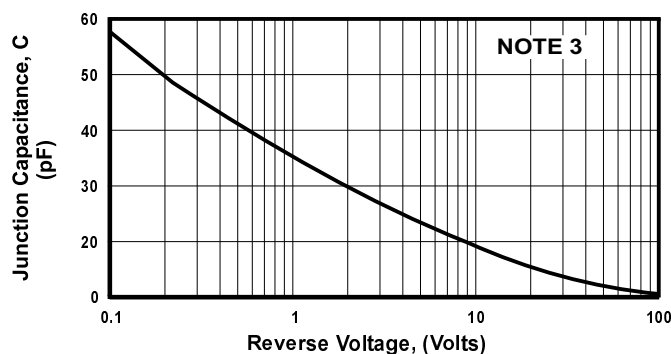


FIGURE 5. TYPICAL JUNCTION CAPACITANCE