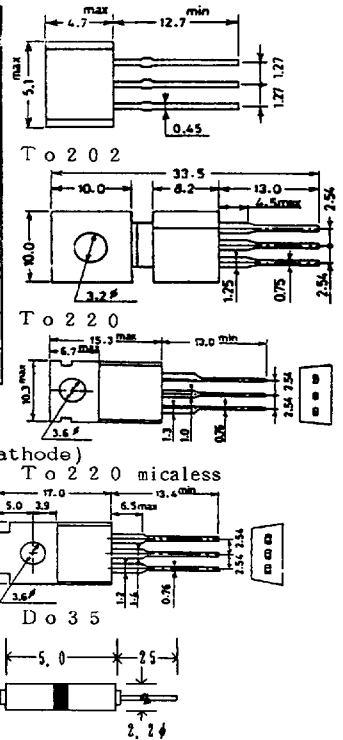


Quick Guide To Thyristors, TRIACs and DIACs

THYRISTORS

IT (AV)	Type No.	Outline	Absolute Maximum Ratings/Ta=25°C				Electrical Characteristics/Ta=25°C								*Rth(j-a)					
			V _{RSM} (V)	V _{RRM} (V)	I _{TSM} (A)	PGM (W)	V _D (V)	I _{GT} max (mA)	V _{GT} max (V)	V _{GD} min (V)	I _T (A)	V _T max (V)	I _H typ (mA)	R _{th(j-c)} (°C/W)		*RGK (Ω)				
0.1	DRA01	To92	150	100	4	0.1	6	0.2	0.8	0.2	1	2.5	3	* 250	1k					
0.3	DRA03T		150	100	9	0.1										2	2	4	* 250	1k
2	DRA2T	To202	150	100	20	0.1	6	0.2	0.8	0.2	10	2	3	12	1k					
3	DRE3				60	0.5										12	1.6	4	6	330
	DRD3	To220	700	600	60	5	6	0.2	1.5	15	1.6	60	3.2	-	-					
5	DRA5				80	5										15	1.6	60	3.0	-
8	DRA8				120	5										25	1.6	60	3.0	-

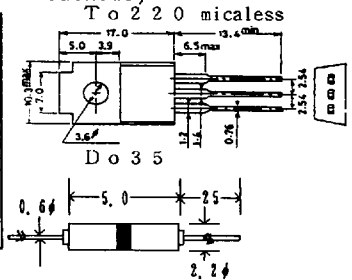
*Outline (unit:mm)
To 9 2



*Note: Connect a resistor of less than RGK in the remarks between a gate and a cathode when an average on current are 0.1-3A.

THYRISTOR WITH RESISTOR (Built-in resistor between gate and cathode)

RGK Typ (A)	IT (A)	Type No.	Outline	Absolute Maximum Ratings/Ta=25°C				Electrical Characteristics/Ta=25°C								
				V _{RSM} (V)	V _{RRM} (V)	I _{TSM} (A)	PGM (W)	V _D (V)	I _{GT} max (mA)	V _{GT} max (V)	I _T (A)	V _T max (V)	I _H max (mA)	R _{th(j-c)} max (°C/W)		
1	0.5	DRA05E-1	To92	500	400	9	0.1	6	1	0.8	1	1.5	6	180		
2.7		DRA05E-2													0.4	3
5.1		DRA05E-5													0.25	2



TRIACs

IT (RMS) (A)	Type No.	Outline	Absolute Maximum Ratings/Ta=25°C				Electrical Characteristics/Ta=25°C												*Rth(j-a)
			V _{DRM} (V)	I _{TSM} (A)	PGM (W)	I _{GT} max (mA)				V _{GT} max (V)				I _T (A)	V _T max (V)	I _H max (mA)	V _{GD} min (V)	R _{th(j-c)} (°C/W)	
						I	II	III	IV	I	II	III	IV						
0.5	DTA05	To92	400	6	1	15	15	-	15	2.3	2.3	-	2.3	2	2	25	0.2	*250	
1	DTA1			8	1		5	5	10		5	2	2		-	2	1.5	1.5	10
2	DTA2	To202	600	12	3	15	15	-	15	2.3	2.3	-	2.3	6	2.6	25	0.2	12	
3	DTB3			27	3		30	30	-		30	2	2		-	2	4.5	1.5	25
6	DTA6-N	To220	200	60	5	30	30	50	30	2	2	2	2	9	1.5	50	0.2	2.5	
	*DTM6-N			60	5		30	30	50		30	2	2		2	2	1.5	50	0.2
8	DTC8-N	To220	600	80	5	30	30	50	30	2	2	2	2	12	1.5	50	0.2	2.0	
	*DTM8-N			80	5		30	30	50		30	2	2		2	2	1.5	50	0.2
10	DTC10-N	To220	600	80	5	30	30	50	30	2	2	2	2	17	1.5	50	0.2	1.8	
	*DTM10-N			80	5		30	30	50		30	2	2		2	2	1.5	50	0.2
12	DTC12-N	To220	600	120	5	30	30	50	30	2	2	2	2	17	1.5	50	0.2	1.8	
	*DTM12-N			120	5		30	30	50		30	2	2		2	2	1.5	50	0.2

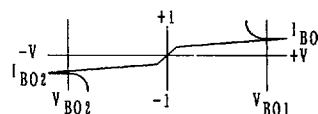
DIACs

Current Rating (A)	Type No.	Outline	Electrical Characteristics/Ta=25°C				
			V _{B01} (V _{B02}) (V)	I _{B01} (I _{B02}) (μA)	Temperature coefficient(%/°C)	V _P (V)	V _{B01} - V _{B02} (V)
± 2	BTD4M	Do35	29 ~ 37	max 50	typ 0.1	min 5	max 3.0

Gate trigger mode of TRIACs

Trigger mode	T ₂	T ₁	G
I	+	-	+
II	+	-	-
III	-	+	+
IV	-	+	-

Fundamental Characteristics of a DIAC



These specifications are subject to change without notice.