

Maximum Ratings And Electrical Characteristics (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNIT		
Maximum repetitive peak reverse voltage		Vrrm	600	V	
Maximum rms voltage		Vrms	420	V	
Maximum dc blocking voltage		Vr	600	V	
Maximum average forward rectified current		IF(AV)	8	А	
Peak forward surge current : 8.3ms single half sine- wave superimposed on rated load		IFSM	65	А	
Typical thermal resistance	TO-220AC (Note 1)	$R_{ extsf{ heta}JC}$	3		
	ITO-220AC (Note 1)		7	°C/W	
	TO-263 (Note 2)		4	°C/vv	
	TO-252 (Note 2)		5		
Operating junction temperature range		TJ	-55 to +175	°C	
Storage temperature range		Тѕтс	-55 to +175	°C	

Note : 1. Device mounted on a infinite heatsink, then measured the center of the marking side.

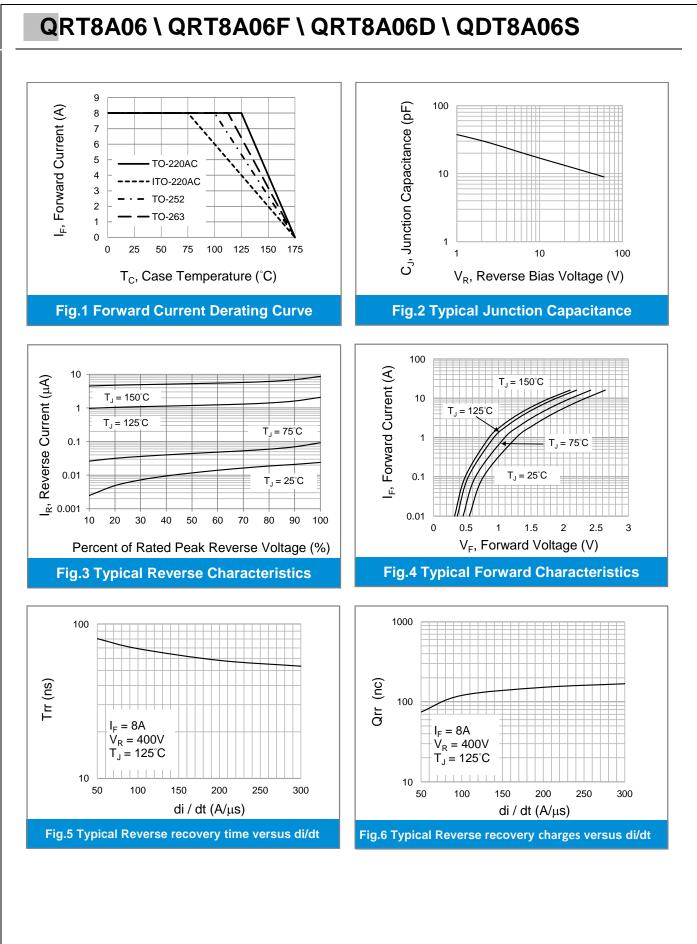
2. Device mounted on a 10cm*10cm*1mm copper pad area, then measured the center of the marking side.





Electrical Characteristics ($T_A=25^{\circ}C$ unless otherwise noted)

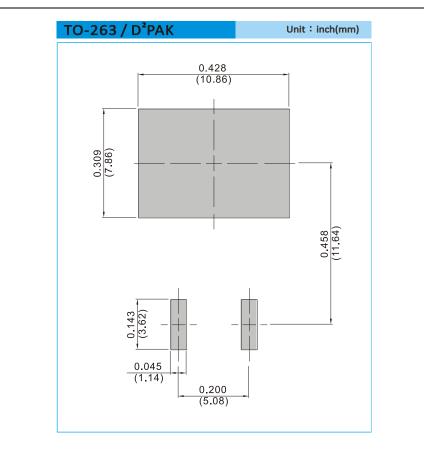
PARAMETER	SYMBOL	TEST CONDITION		MIN.	TYP.	MAX.	UNITS
Breakdown voltage	V _{BR}	I _R =100μA	TJ=25°C	600	-	-	V
Instantaneous forward voltage	V _F	I _F =1A I _F =5A I _F =8A	TJ=25℃	- -	1.27 1.95 2.21	- - 2.4	V
		I _F =1A I _F =5A I _F =8A	TJ=125℃		0.93 1.51 1.76	- -	V
Reverse current	I _R	V _R =600V	TJ=25°C	-	-	1	μA
Reverse recovery time	T _{RR}	I _F =0.5A I _R =1A I _{RR} =0.25A	TJ=25℃	-	-	25	ns
		I _F =1A V _R =30V di/dt=100A/μs	TJ=25°C	-	-	20	ns
		I _F =8Α V _R =400V di/dt=200A/μs	TJ=25°C	-	28	-	ns
Peak recovery current	I _{RRM}	I _F =8A V _R =400V di/dt=200A/µs	TJ=25°C	-	2.2	-	A
Reverse recovery charge	Q _{RR}	I _F =8Α V _R =400V di/dt=200A/μs	TJ=25°C	-	31	-	nC
Softness factor = tb/ta	S	I _F =8A V _R =400V di/dt=200A/µs	TJ=25°C	-	1.33	-	-
Softness factor = tb/ta	S	I _F =8A V _R =400V di/dt=200A/µs	TJ=125°C	-	1.57	-	-







MOUNTING PAD LAYOUT



ORDER INFORMATION

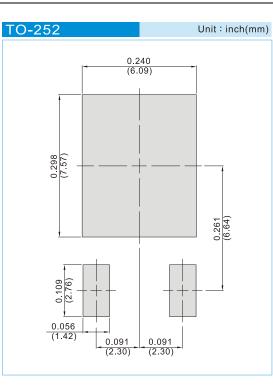
Packing information

T/R – 0.8K per 13" plastic Reel





MOUNTING PAD LAYOUT

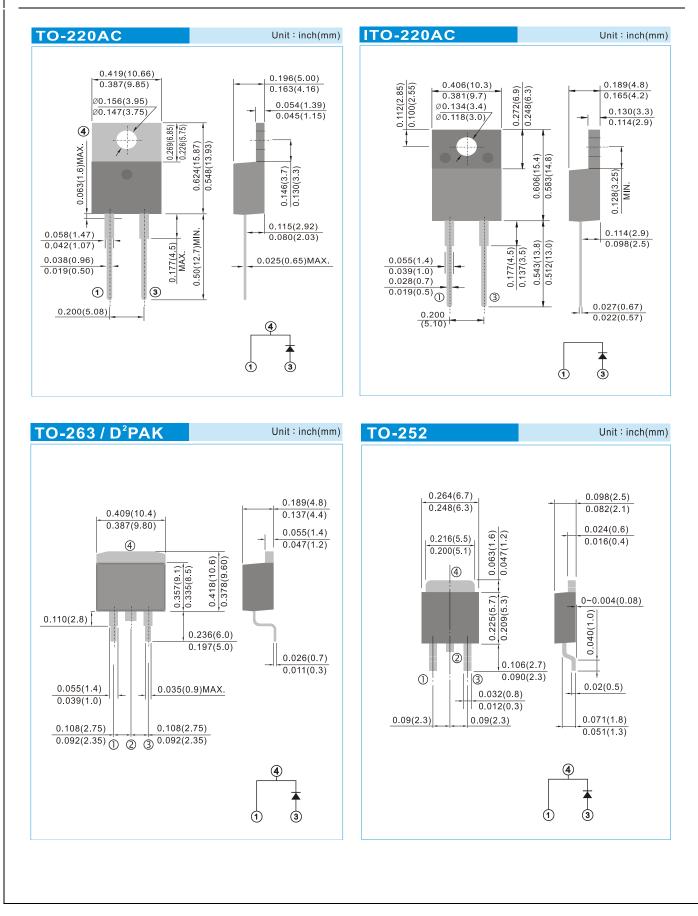


ORDER INFORMATION

Packing information
T/R - 3K per 13" plastic Reel









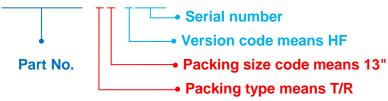


Part No_packing code_Version

QRT8A06_T0_00001 QRT8A06F_T0_00001 QRT8A06D_R2_00001 QDT8A06S_L2_00001 QDT8A06S_S2_00001

For example :

RB500V-40_R2_00001



Packing Code XX				Version Code XXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	т	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			





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