



PLANAR STRUCTURED SUPERFAST RECOVERY RECTIFIERS

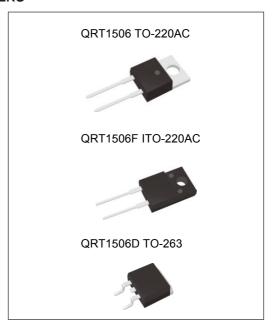
VOLTAGE 600 Volt CURRENT 15 Ampere

FEATURES

- Planar structure with EPI wafer
- Hyperfast recovery time, reduced Qrr and soft recovery
- For PFC CCM operation
- · Low leakage current
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O Flame Retardant Epoxy Molding Compound
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: TO-220AC, ITO-220AC, TO-263 package
- Terminals: Lead solderable per MIL-STD-750, Method 2026
- TO-220AC Weight: 0.067 ounces, 1.89 grams
- ITO-220AC Weight: 0.055 ounces, 1.56 grams
- TO-263 Weight: 0.051 ounces, 1.46 grams



MAXIMUM RATINGS(TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNIT	
Maximum recurrent peak reverse voltage		VRRM	600	V
Maximum rms voltage		VRMS	420	V
Maximum dc blocking voltage		VR	600	V
Maximum average forward rectified current		l f(AV)	15	А
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load		I FSM	I FSM 150	
Typical thermal resistance	TO-220AC(Note 1) ITO-220AC(Note 1) TO-263 (Note 1)	Rөjc	2 5.5 2	°C/W
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.





ELECTRICAL CHARACTERISTICS(TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Breakdown voltage	VBR	I R=100μA		600	-	-	V
Instantaneous forward voltage	VF	I F=1A I F=5A I F=15A	TJ=25°C	- - -	1 1.53 2.13	- - 2.35	V
		F=1A F=5A F=15A	TJ=125°C	-	0.64 0.97 1.36	- - 1.55	V
Reverse leakage current	IR	VR=600V	TJ=25°C TJ=125°C	-	-	3 100	μΑ
Reverse recovery time	Trr	I F=0.5A I R=1A I RR=0.25A	TJ=25°C	-	-	30	ns
		I F=1A VR=30V di/dt=100A/μs	TJ=25°C	-	-	25	ns
		I F=15A VR=400V di/dt=200A/μs	TJ=25°C	-	40	1	ns
Peak recovery current	I RRM	l F=15A VR=400V di/dt=200A/μs	TJ=25°C	-	2.5	1	А
Reverse recovery charge	Qrr	I F=15A VR=400V di/dt=200A/μs	TJ=25°C	-	55	1	nC





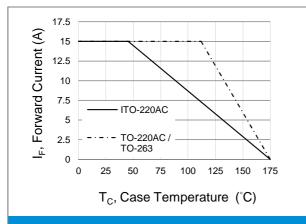


Fig.1 Forward Current Derating Curve

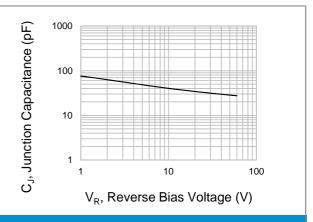


Fig.2 Typical Junction Capacitance

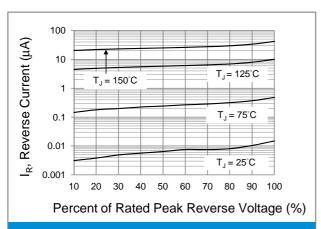


Fig.3 Typical Reverse Characteristics

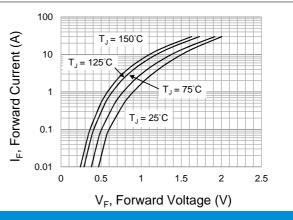
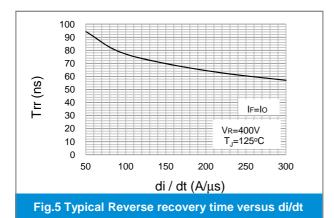
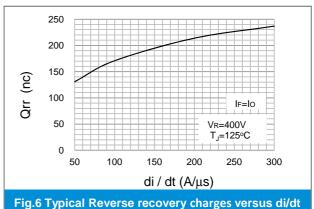


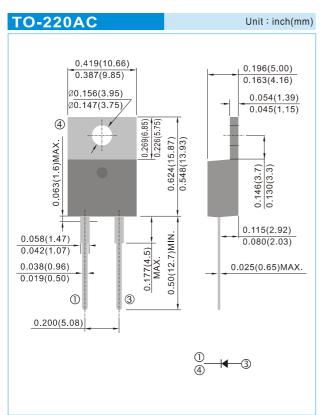
Fig.4 Typical Forward Characteristics

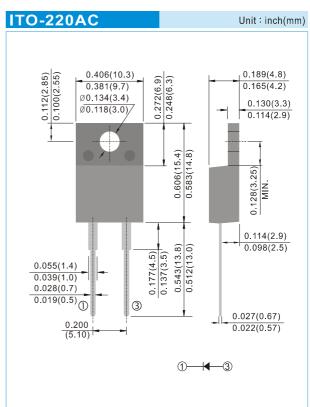


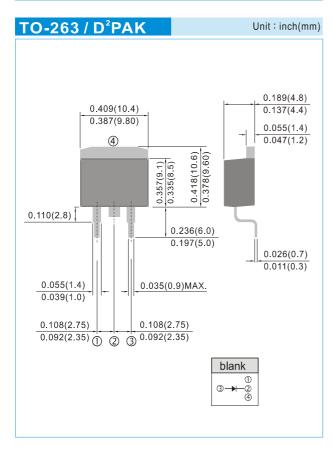










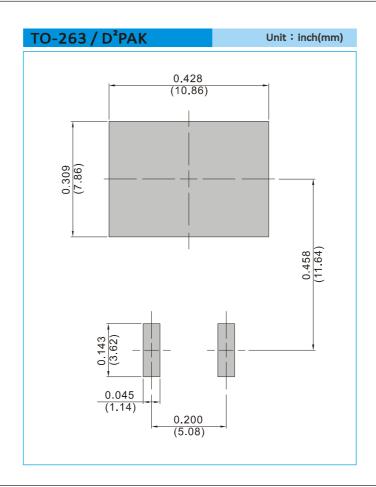


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MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 0.8K per 13" plastic Reel





Part No_packing code_Version

QRT1506_T0_00001 QRT1506F_T0_00001 QRT1506D_R2_00001

For example:



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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