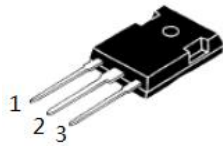


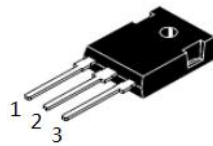


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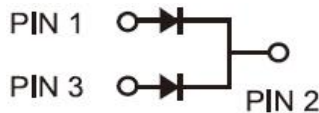
ULTRAFAST RECOVERY RECTIFIERS



TO-247/PT



TO-247S/PTS



FEATURES

- High speed switching capability
- High current capability
- High forward surge capability
- Low power losses, High efficiency
- High reliability
- For use in low voltage, high frequency inverters



APPLICATIONS

Fast recovery diode, mainly used for rectification, used in high-equipment, The express and ultrafast recovery diodes are suitable high frequency and ultra high frequency circuits, respectively

Primary Characteristic

I_O	2*15A
V_{RRM}	400V
I_{FSM}	320A
V_F	0.90V
T_{jmax}	150°C
Assembly code	CR

MECHANICAL DATA

- **Case:** Molded plastic
- **Polarity:** As marked
- **Mounting Position:** Any
- **Molded Plastic:** UL Flammability Classification Rating 94V-0
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Solder bath temperature 275°C maximum, 10s per JESD 22-

Maximum Ratings (Per Leg) at $T_a=25^\circ\text{C}$ unless otherwise specified

Characteristics	Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	400	V
Working Peak Reverse Voltage	V_{RWM}	400	V
Maximum DC Blocking Voltage	V_{DC}	400	V
Maximum Average Forward Rectified Current	I_O	Per Leg	15
		Total	30
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	320	A
Operating Temperature Range	T_J	150	°C
Storage Temperature Range	T_{STG}	-40 to +150	°C
Typical Thermal Resistance (Note1)	$R_{\theta JC}$	2	°C/W

Note1: Thermal resistance from Junction to case per leg mounted on heatsink.

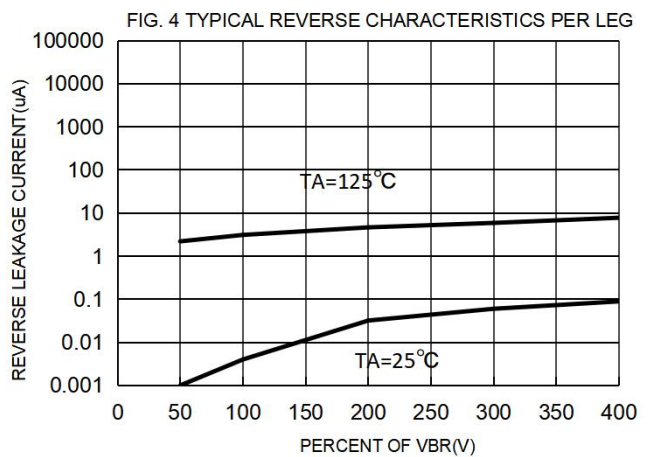
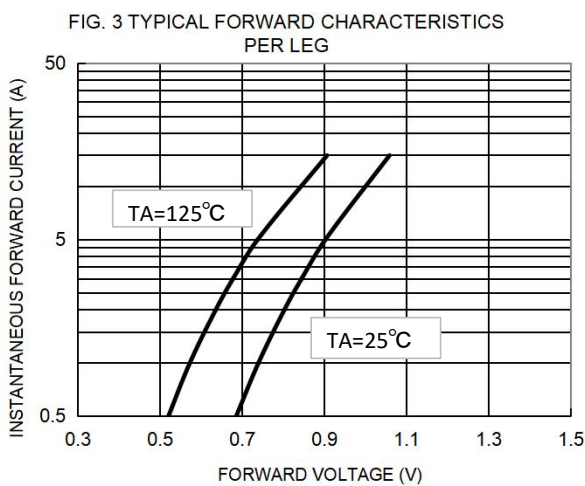
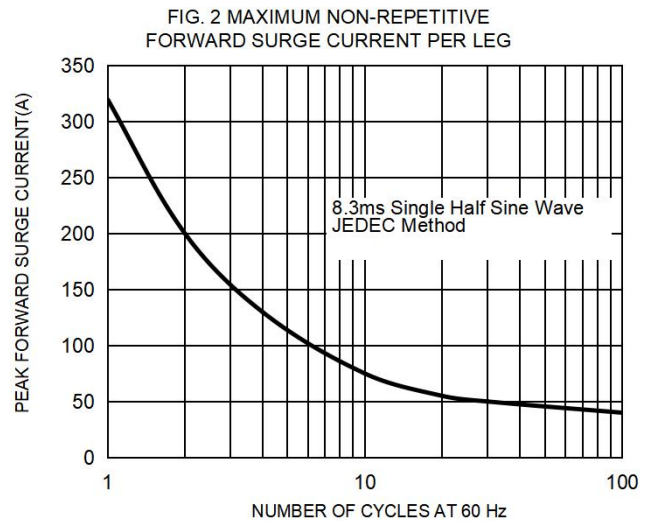
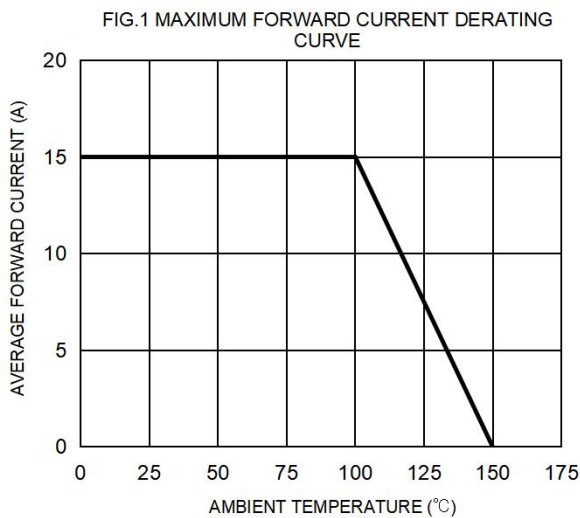
Electrical Characteristics (Per Leg) unless otherwise specified

Characteristics	Symbol	Value		Unit
Forward Voltage Drop (Note2)	V_F	Typ.	Max.	V
		at $I_F=3A$	0.84	
	TA=25°C	0.68	-	
	TA=125°C	0.90	-	
at $I_F=5A$	TA=25°C	0.74	-	
	TA=125°C	1.06	1.39	
at $I_F=15A$	TA=25°C	0.90	-	
	TA=125°C	0.10	1.00	
Maximum Reverse Current at $V_R=400V$	I_R	10.00	-	μA
Maximum Reverse Recovery Time at $I_F=0.5A, I_R=1A,$	T_{rr}	-	35.00	ns

Note2: Pulse test: 300 μs pulse width, 1 % duty cycle



RATINGS AND CHARACTERISTIC CURVES



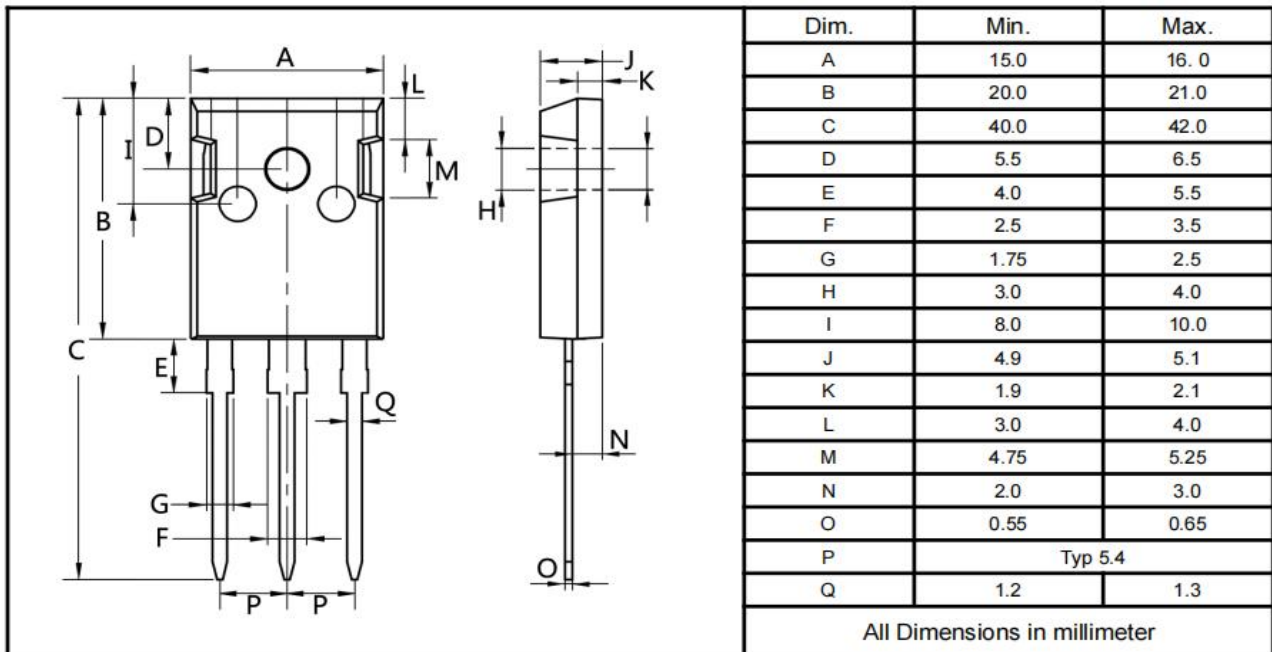


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ULTRAFAST RECOVERY RECTIFIERS

Package Outline Dimensions millimeters

TO-247



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