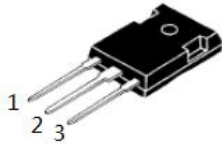


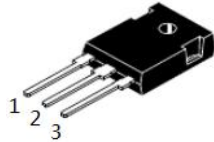


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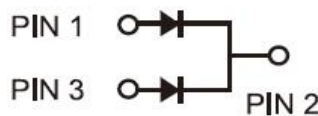
## ULTRAFAST RECOVERY RECTIFIERS



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



**RoHS**  
COMPLIANT

### APPLICATIONS

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

### Primary Characteristic

$I_O$	2*15A
$V_{RRM}$	200V
$I_{FSM}$	150A
$V_F$	0.88V
$T_{jmax}$	175°C

### 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-B106

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

Characteristics	Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	200	V
Working Peak Reverse Voltage	$V_{RWM}$	200	V
Maximum DC Blocking Voltage	$V_{DC}$	200	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)	$I_{FSM}$	150	A
Operating Temperature Range	$T_J$	175	°C
Storage Temperature Range	$T_{STG}$	-55 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				
		Typ.	Max.					
Forward Voltage Drop(Note2)	$V_F$	V	-	-				
					at $I_F=3A$	TA=25°C	0.79	-
						TA=125°C	0.65	-
					at $I_F=5A$	TA=25°C	0.84	-
						TA=125°C	0.71	-
					at $I_F=15A$	TA=25°C	0.98	1.05
Maximum Reverse Current at $V_R=200V$	$I_R$	μA	-	-				
					TA=25°C	0.1	10	
	TA=125°C	2	-	μA				
Maximum Reverse Recovery Time at $I_F=0.5A, I_R=1A,$	$T_{rr}$	-	25	ns				

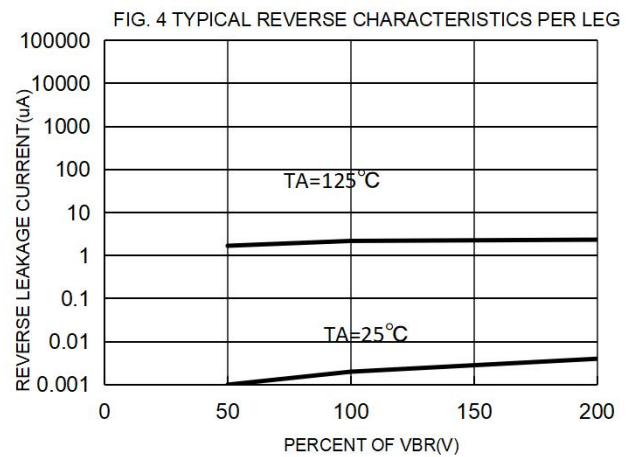
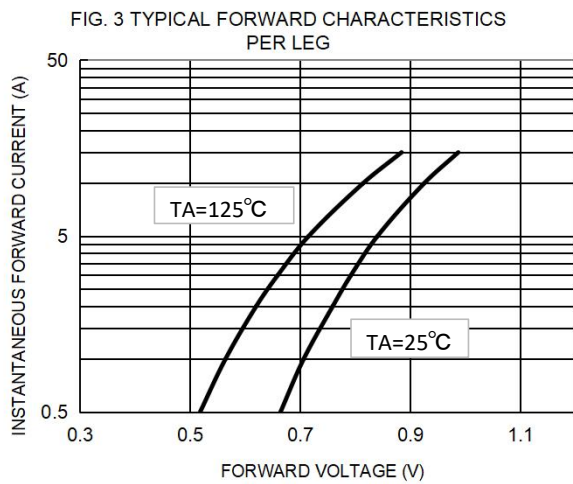
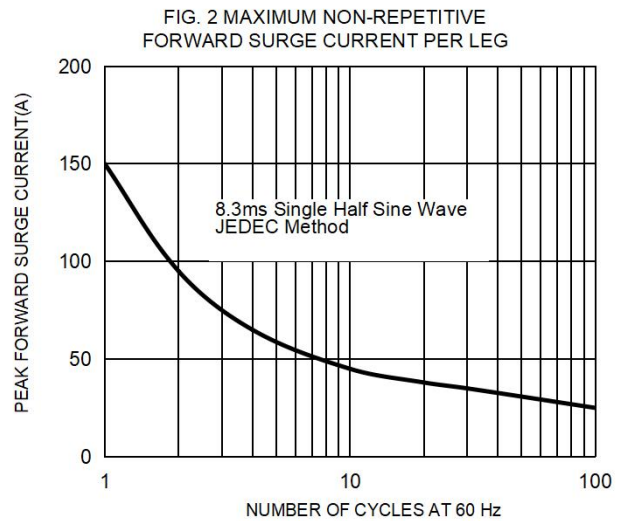
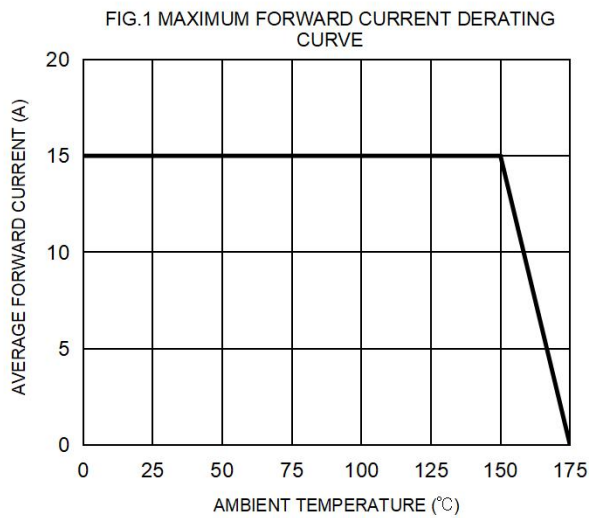
Note2: Pulse test: 300 μs pulse width, 1 % duty cycle



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## ULTRAFAST RECOVERY RECTIFIERS

### RATINGS AND CHARACTERISTIC CURVES



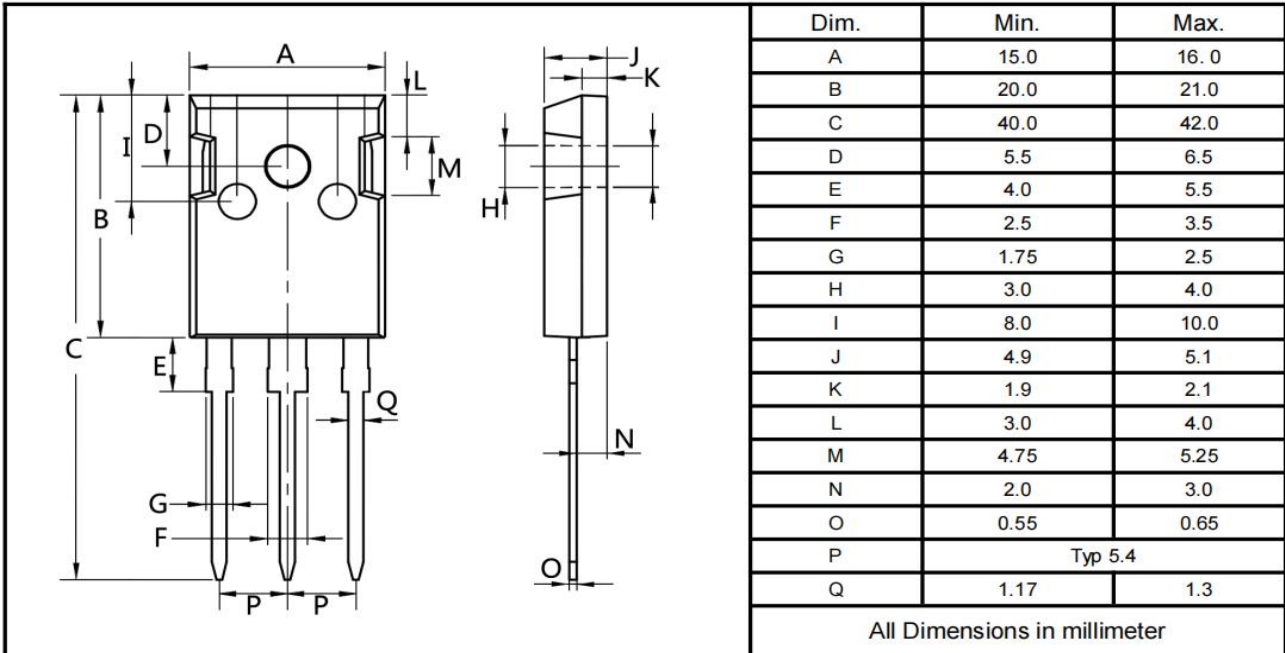


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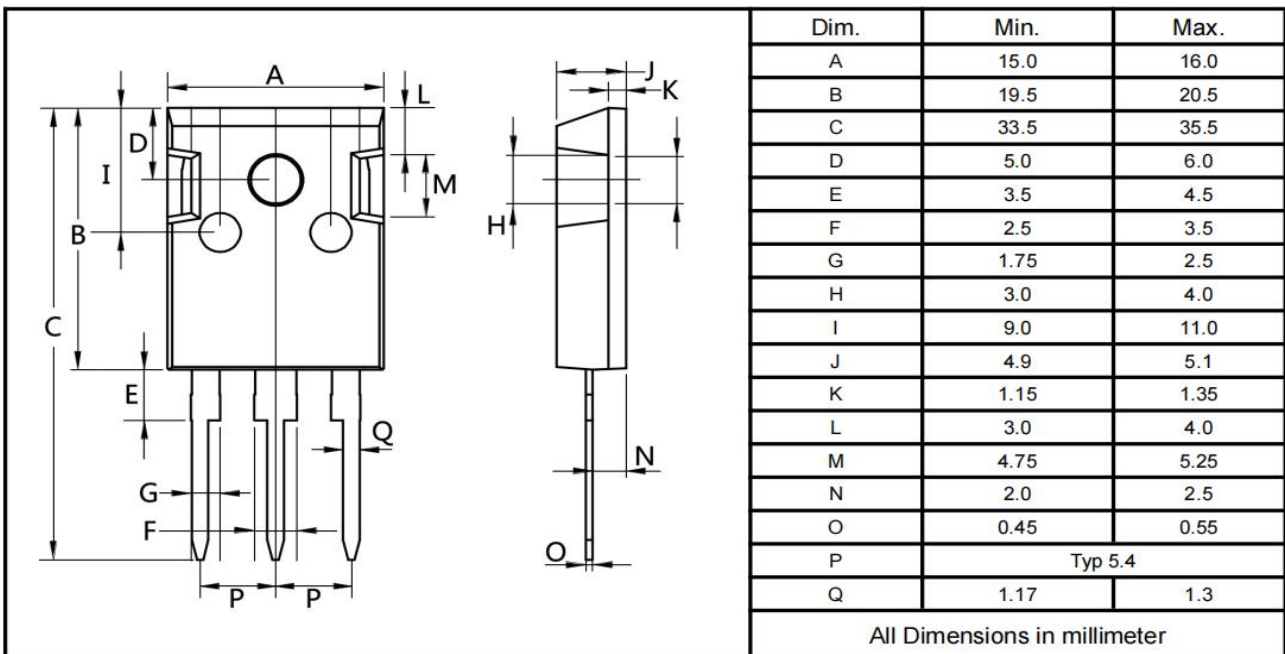
## ULTRAFAST RECOVERY RECTIFIERS

Package Outline Dimensions millimeters

### TO-247



### TO-247S



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