



MUR1560 / MUR1560D / MUR1560F

SUPERFAST RECOVERY RECTIFIERS

Voltage

600 V

Current

15 A

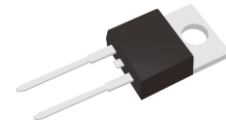
Features

- Superfast recovery times-epitaxial construction
- Low forward voltage, high current capability
- Exceeds environmental standards of MIL-S-19500/228
- Hermetically sealed.
- Low leakage
- High surge capacity
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound
- Lead free in compliance with EU RoHS 2011/65/EU directive

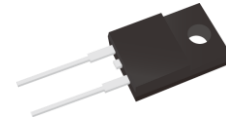
Mechanical Data

- Case: Molded plastic, TO-220AC, ITO-220AC, TO-263
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color Band denotes cathode end
- TO-220AC Approx. Weight: 0.067 ounces, 1.89 grams
- ITO-220AC Approx. Weight: 0.055 ounces, 1.56 grams
- TO-263 Approx. Weight: 0.051 ounces, 1.46 grams
- Marking: Part number

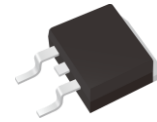
MUR1560 TO-220AC



MUR1560F ITO-220AC



MUR1560D TO-263



Maximum Ratings ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	600	V
Maximum rms voltage	V_{RMS}	420	V
Maximum dc blocking voltage	V_R	600	V
Maximum average forward current	$I_{F(AV)}$	15	A
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	150	A
Maximum forward voltage at 15A	V_F	1.5	V
Maximum dc reverse current at rated dc blocking voltage	I_R	5	μA
Operating and storage temperature range	T_J, T_{STG}	-55 to +175	$^{\circ}\text{C}$



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Maximum Ratings ($T_A=25^\circ\text{C}$ unless otherwise noted)

PARAMETER		SYMBOL	LIMIT	UNIT
Maximum reverse recovery time	(Note 3)	T_{RR}	50	ns
Typical thermal resistance	TO-220AC(Note 1)	$R_{\theta JC}$	2.5	$^\circ\text{C/W}$
	ITO-220AC (Note 1)	$R_{\theta JC}$	6.5	
	TO-263(Note 2)	$R_{\theta JC}$	5	

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

2. Mounted on a 10cm*10cm*1mm copper pad area

3. Reverse Recovery Test Conditions : $I_F=0.5\text{A}$, $I_R=1\text{A}$, Recover to 0.25A

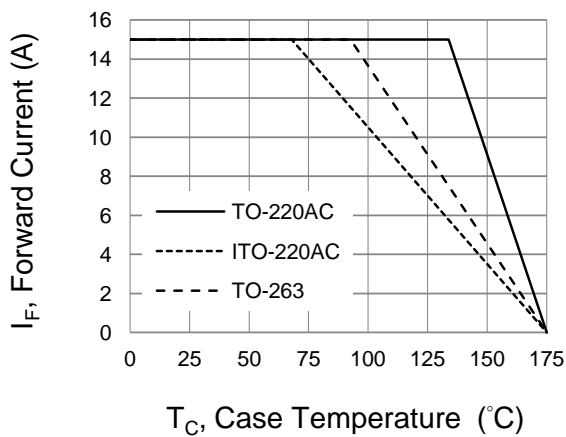


Fig.1 Forward Current Derating Curve

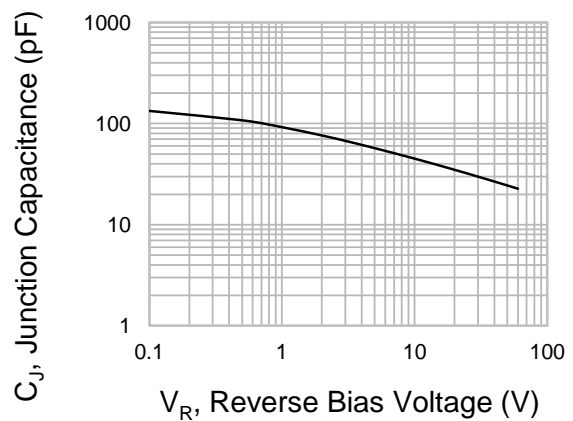


Fig.2 Typical Junction Capacitance

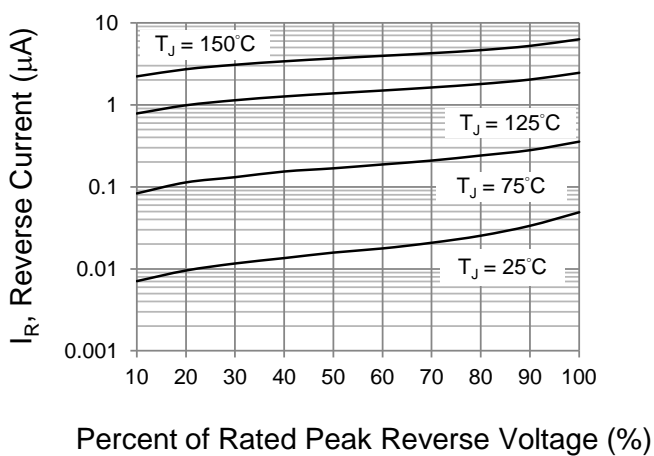


Fig.3 Typical Reverse Characteristics

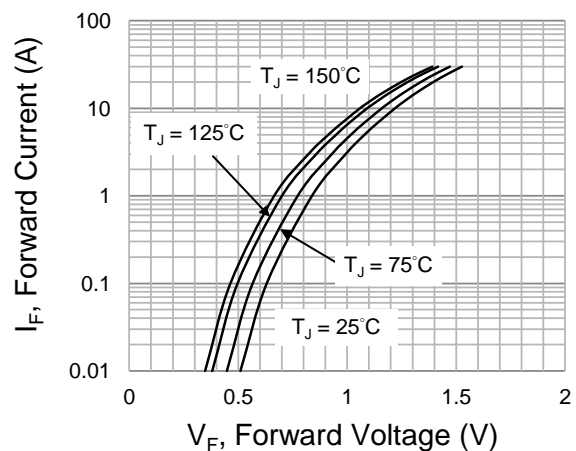


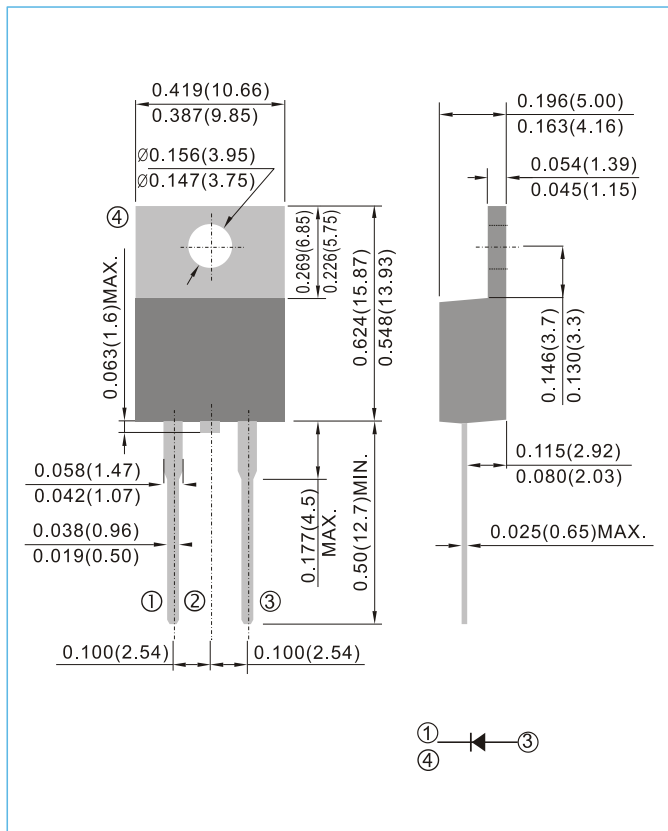
Fig.4 Typical Forward Characteristics



MUR1560 / MUR1560D / MUR1560F

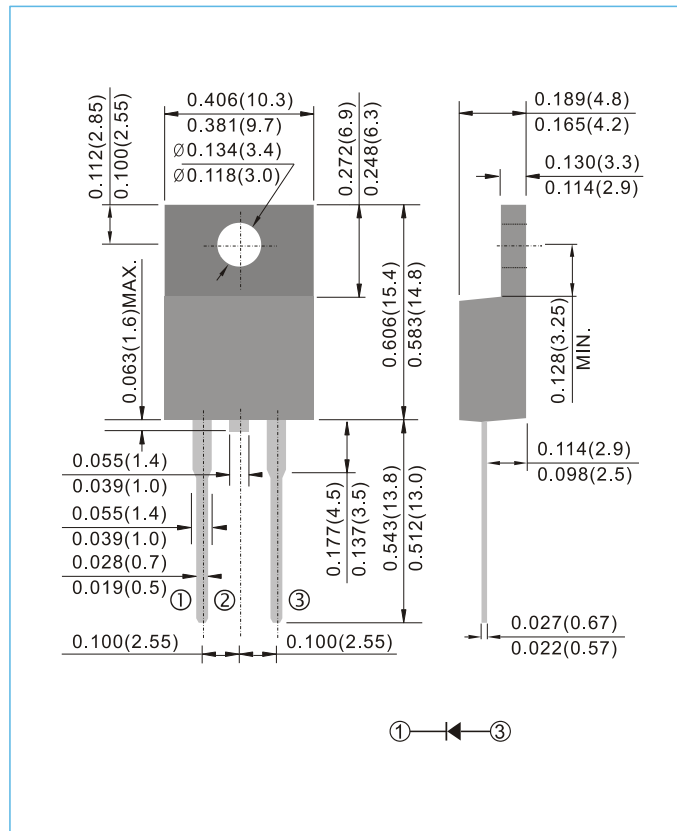
TO-220AC

Unit : inch(mm)



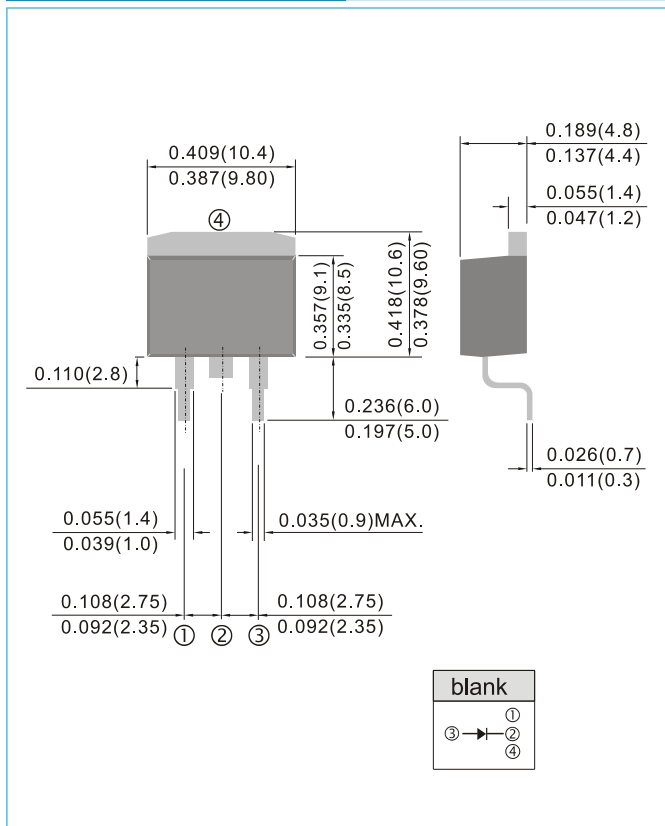
ITO-220AC

Unit : inch(mm)



TO-263 / D²PAK

Unit : inch(mm)



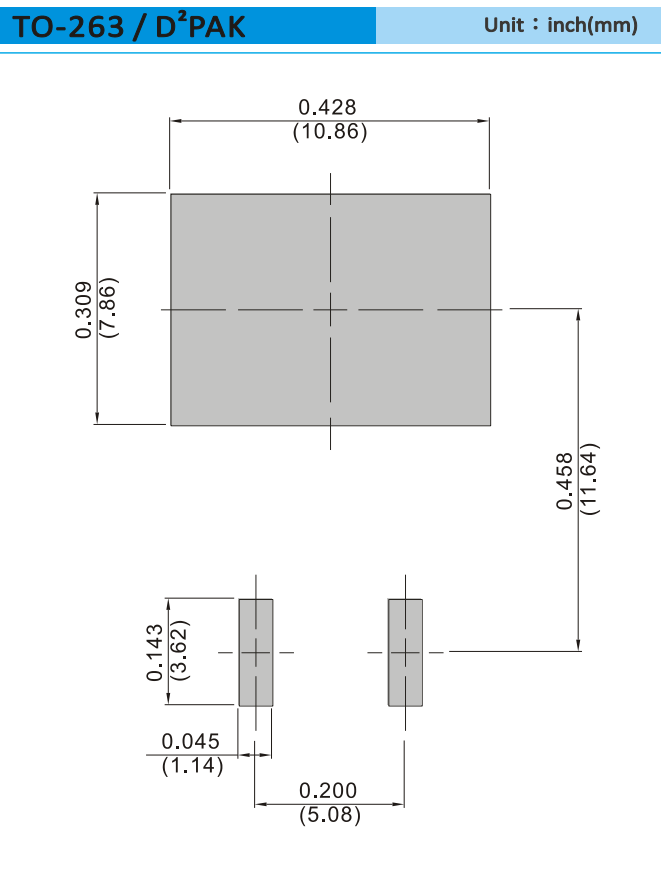
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MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
T/R – 0.8K per 13" plastic Reel



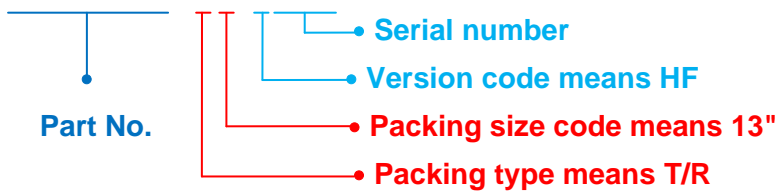
MUR1560 / MUR1560D / MUR1560F

Part No_packing code_Version

- MUR1560_T0_00001
- MUR1560_T0_10001
- MUR1560F_T0_00001
- MUR1560F_T0_10001
- MUR1560D_R2_00001
- MUR1560D_R2_10001

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)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	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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