

MUR1660CT / MUR1660FCT / MUR1660DC

SUPERFAST RECOVERY RECTIFIERS

Voltage

600 V

Current

16 A

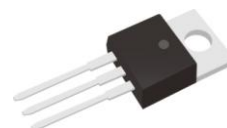
Features

- Superfast recovery times-epitaxial construction
- Low forward voltage, high current capability
- 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 2.0
- Green molding compound as per IEC 61249 standard

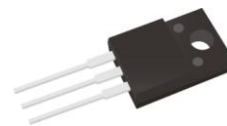
Mechanical Data

- Case: TO-220AB, ITO-220AB, TO-263 package
- Terminals: solder plated, solderable per MIL-STD-750, Method 2026
- TO-220AB Weight: 0.067 ounces, 1.89 grams.
- ITO-220AB Weight: 0.056 ounces, 1.6 grams.
- TO-263 Weight: 0.049 ounces, 1.38 grams.
- Marking: Part number

MUR1660CT TO-220AB



MUR1660FCT ITO-220AB



MUR1660DC 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	Per diode	$I_{F(AV)}$	8	A
	Per device		16	
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load		I_{FSM}	100	A
Maximum forward voltage at 8A		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-220AB(Note 1)	$R_{\theta JC}$	2.5	$^{\circ}\text{C/W}$
	ITO-220AB (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

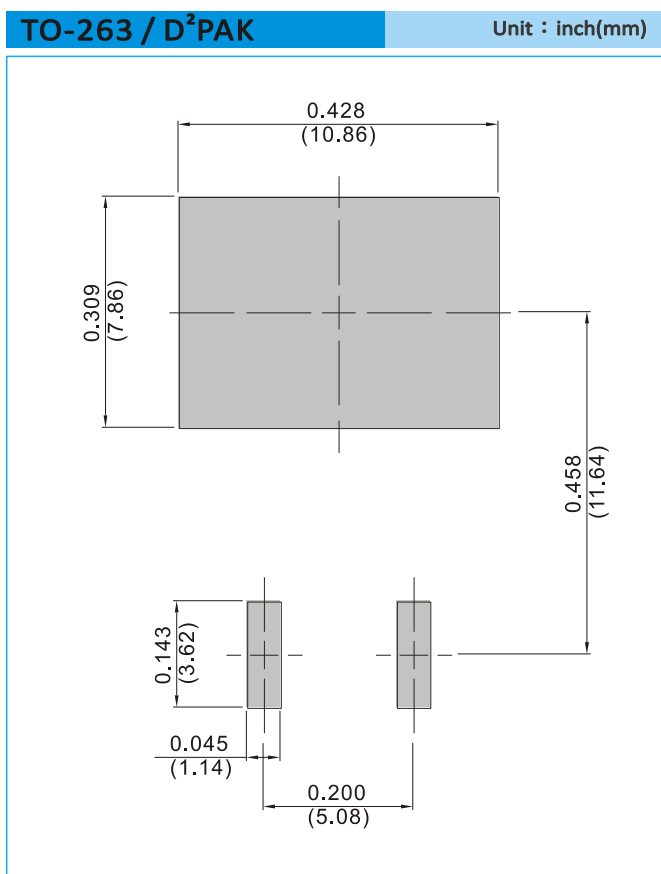
3. Reverse Recovery Test Conditions : $I_F=0.5\text{A}$, $I_R=1\text{A}$, Recover to 0.25A

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PART NO PACKING CODE VERSION

PART NO PACKING CODE	Package Type	Packing type	Marking	Version
MUR1660CT_T0_00001	TO-220AB	50 pcs / Tube	MUR1660CT	Halogen free
MUR1660FCT_T0_00001	ITO-220AB	50 pcs / Tube	MUR1660FCT	Halogen free
MUR1660DC_R2_00001	TO-263	0.8K pcs / 13" reel	MUR1660DC	Halogen free

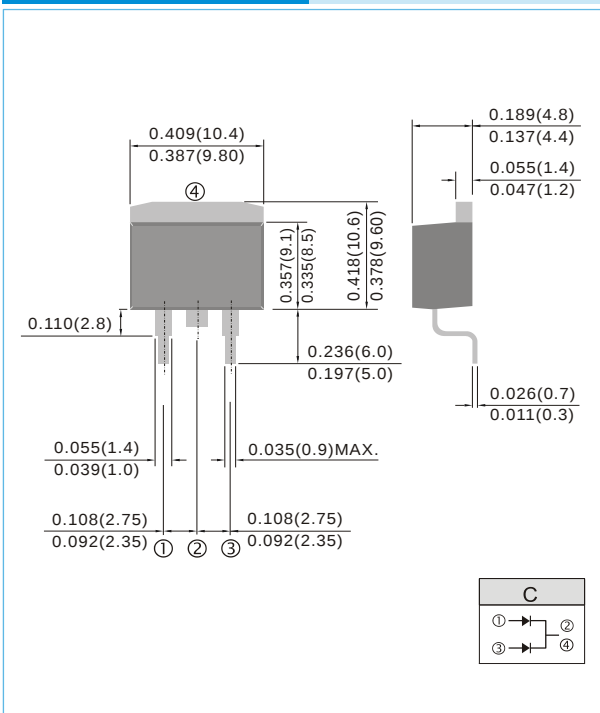
MOUNTING PAD LAYOUT



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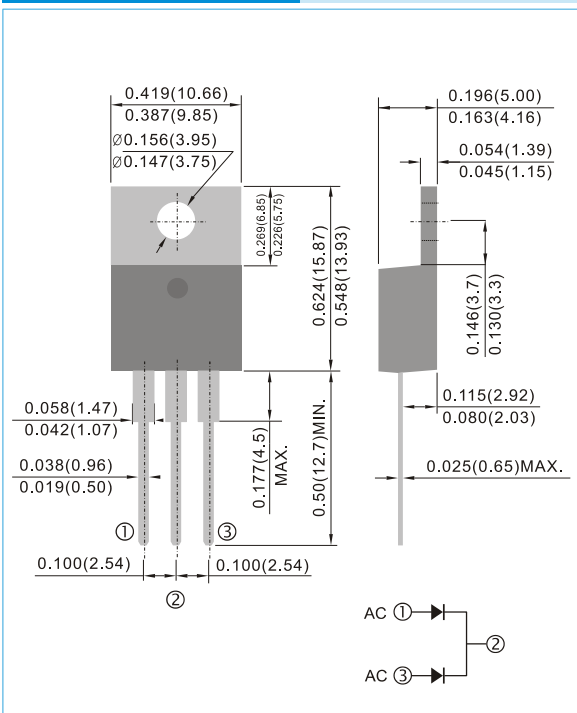
TO-263 / D²PAK

Unit : inch(mm)



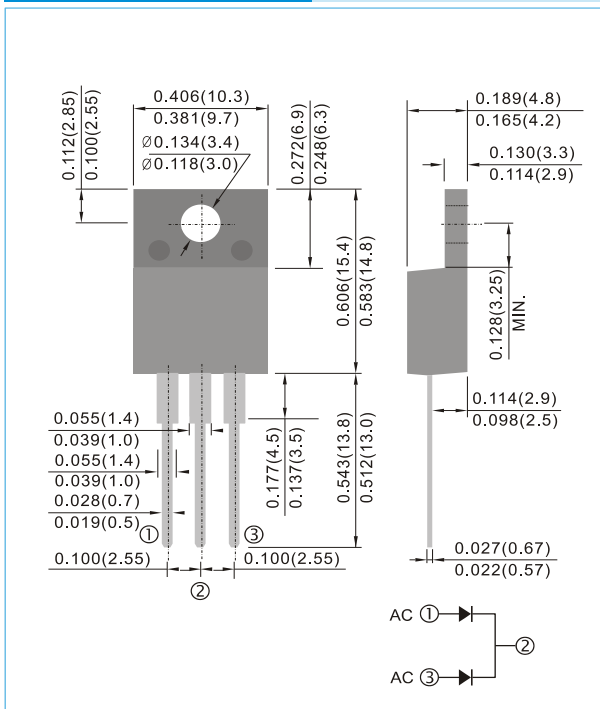
TO-220AB

Unit : inch(mm)



ITO-220AB

Unit : inch(mm)





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