



SUPERFAST RECOVERY RECTIFIERS

Voltage

600 V

Current

8 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: Molded plastic, TO-220AC, ITO-220AC, TO-263, TO-252
- 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: 0.049 ounces, 1.38 grams
- TO-252 Weight: 0.0104 ounces, 0.297 grams
- Marking: Part number

MUR860 TO-220AC



MUR860F ITO-220AC



MUR860D TO-263



MUR860S TO-252



Maximum Ratings (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNIT
Maximum repetitive peak reverse voltage	VRRM	600	V
Maximum rms voltage	VRMS	420	V
Maximum dc blocking voltage	VR	600	V
Maximum average forward current	I F(AV)	8	А
Peak forward surge current: 8.3ms single half sine- wave superimposed on rated load	IFSM	100	А
Maximum forward voltage at 8A	VF	1.5	V
Maximum dc reverse current at rated dc blocking voltage	I R	5	μΑ
Operating and storage temperature range	TJ, TSTG	-55 to +175	°C



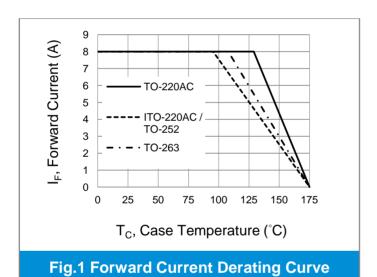


Maximum Ratings (T_A=25°C unless otherwise noted)

PARAMETER		SYMBOL	LIMIT	UNIT
Maximum reverse recovery time	(Note 3)	Trr	50	ns
Typical thermal resistance	TO-220AC(Note 1)	te 1)	2.5	
	ITO-220AC (Note 1)	6.5	9000	
	TO-263(Note 1)	R _{eJC}	5	°C/W
	TO-252(Note 2)	$R_{\theta JC}$	6.5	

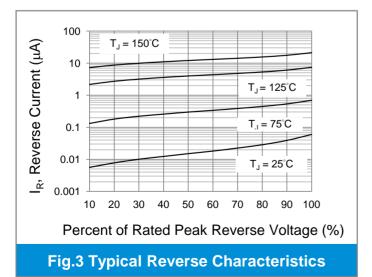
Note: 1. Device mounted on a infinite heatsink, then measured the center of the marking side.

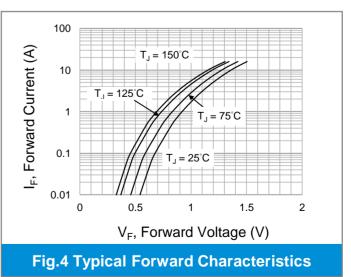
- 2. Mounted on a 10cm*10cm*1mm copper pad area
- 3. Reverse Recovery Test Conditions: IF=0.5A, IR=1A, Recover to 0.25A



V_R, Reverse Bias Voltage (V)

Fig.2 Typical Junction Capacitance





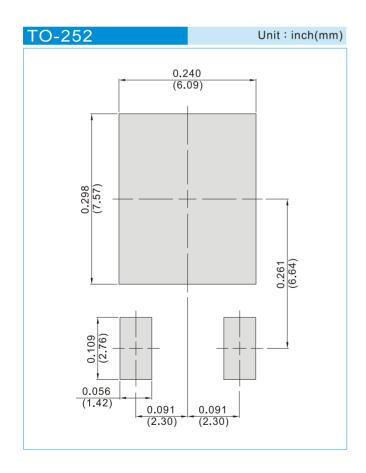


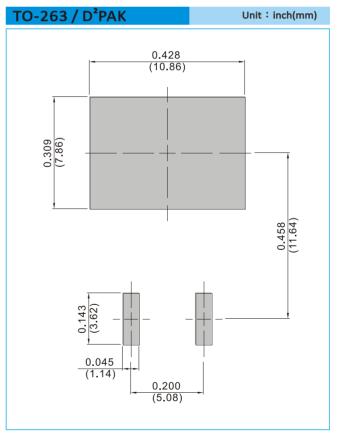


PART NO PACKING CODE VERSION

PART NO PACKING CODE	Package Type	Packing type	Marking	Version
MUR860_T0_00001	TO-220AC	50 pcs / Tube	MUR860	Halogen free
MUR860F_T0_00001	ITO-220AC	50 pcs / Tube	MUR860F	Halogen free
MUR860D_R2_00001	TO-263	0.8K pcs / 13" reel	MUR860D	Halogen free
MUR860S_L2_00001	TO-252	3K pcs / 13" reel	MUR860S	Halogen free

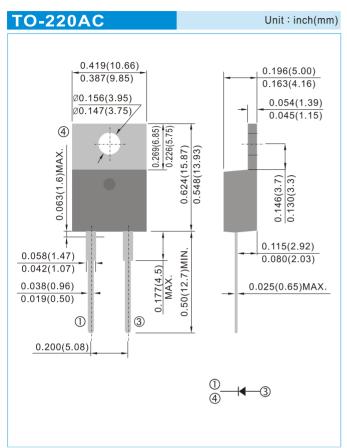
MOUNTING PAD LAYOUT

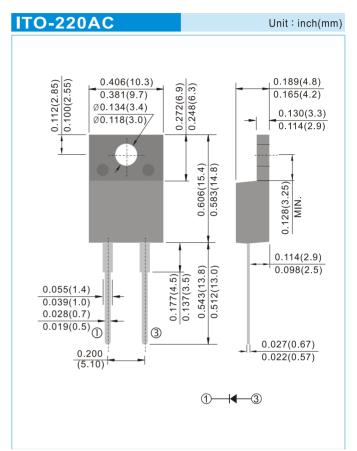


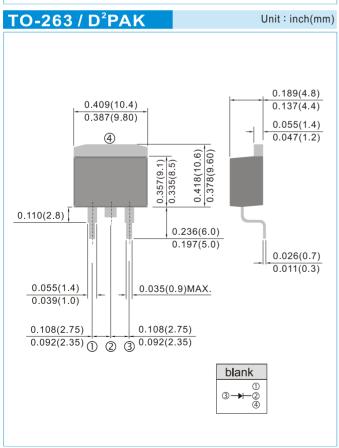


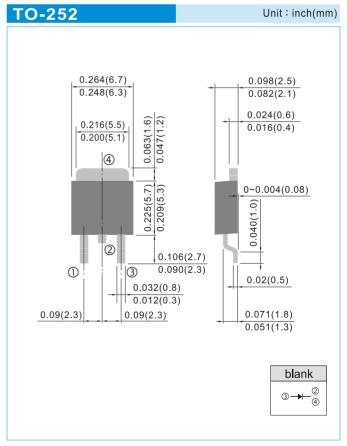
















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