

MUR1005~MUR1060

SUPERFAST RECOVERY RECTIFIER

VOLTAGE 50 to 600 Volt **CURRENT** 10 Ampere

TO-220AC

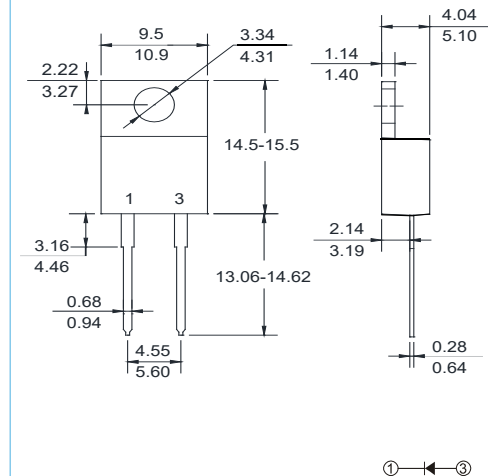
Unit:mm

FEATURES

- Super fast switching time for hight efficiency
- High surge capacity
- High surge capability.
- Lead free in compliance with EU RoHS

MECHANICAL DATA

- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	MUR1005	MUR1010	MUR1020	MUR1040	MUR1060	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	V
Maximum Average Forward Current at See Fig 1	I _{F(AV)}	10					A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	100					A
Maximum Forward Voltage at 10 A (Note 1)	V _F	1.3			1.5		V
Maximum DC Reverse Current at Rated DC Blocking Voltage T _J =25°C T _J =125°C	I _R	5 250					μA
Maximum Reverse Recovery Time (Note 1)	t _{rr}	35			50		ns
Typical Junction Capacitance (Note 2)	C _J	160					pF
Typical thermal Resistance (Note 3)	R _{θJa}	8					°C / W
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-55 to +150					°C

NOTES:

1. Pulse Test with $PW=300\mu sec$, 2% Duty Cycle.
2. Reverse Recovery Tset Conditions : $I_F=0.5A, I_R=1A, I_{rr}=0.25A$
3. Mounted on P.C. Board with $14mm^2$ (0.013mm thick) copper pad areas.

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RATING AND CHARACTERISTIC CURVES

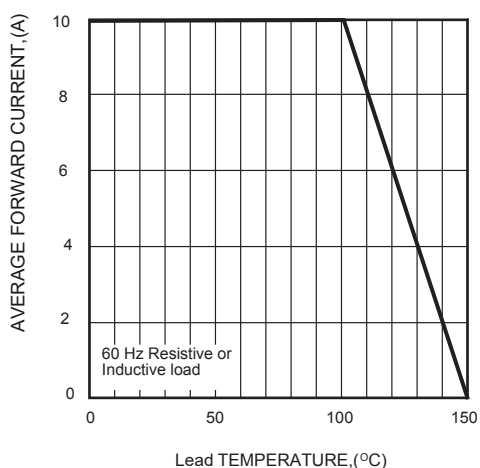


Fig. 1 Forward Current Derating Curve

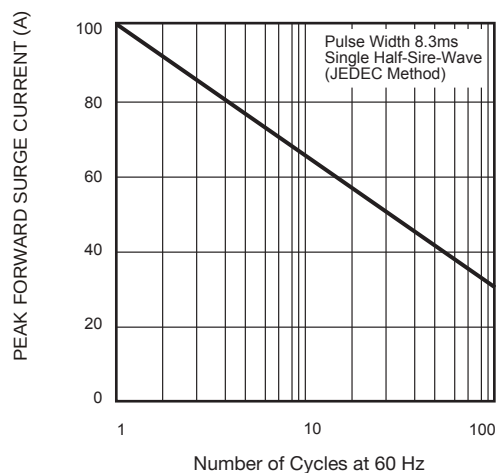


Fig. 2 Surge Current Derating Curve

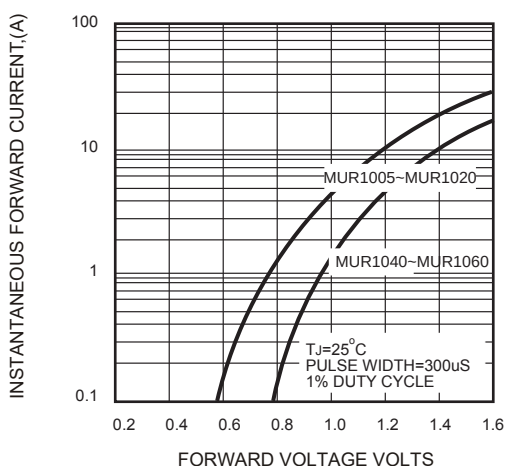


Fig. 3 Typical Forward Characteristics

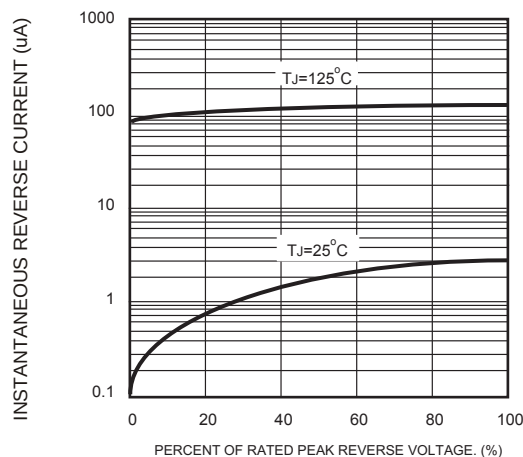


Fig. 4 Typical Reverse Characteristics

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ORDER INFORMATION

- Packing information

Part Number	Case	DELIVERY MODE	QUANTITY
MUR1005~MUR1060	TO-220AC	Tube	1000/BOX