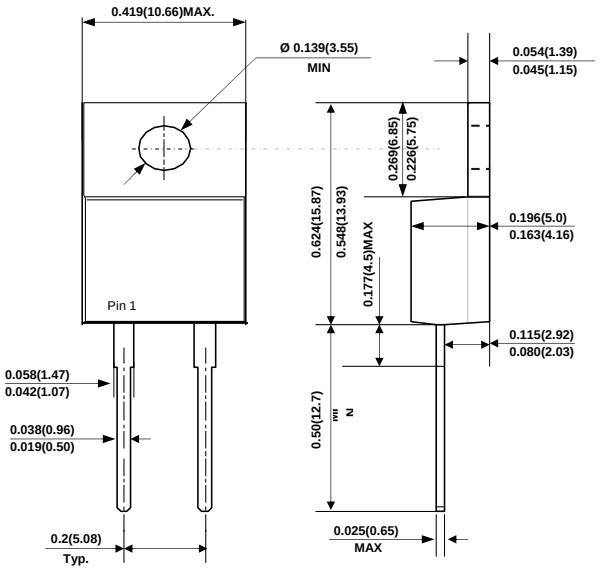
MUR1005T THRU MUR1060T

SUPER FAST RECOVERY RECTIFIER

Reverse Voltage - 50 to 600 Volts Forward Current - 10.0 Ampere

TO-220AC



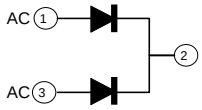
Dimensions in inches and (millimeters)

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0.
  Flame Retardant Epoxy Molding Compound.
- Exceeds environmental of MIL-S-19500/228
- Low power loss, high efficiency.
- Low forward voltage, high current capability.
- High surge capability.
- Super fast recovery times, high voltage.
- Epitaxial chip construction.
- In compliance with EU RoHS 2002/95/EC directives.

MECHANICAL DATA

Case: TO-220AC, Molded plastic.
Terminals: Solderable per MIL-STD-750，Method 2026
Weight: 1.859 gram (0.0655 ounces).
Standard Packaging : Tube.



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwis e specified.
Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

PARAMETER	*SYMBOLS*	MUR1005T	MUR1010T	MUR1020T	MUR1040T	MUR1060T	UNITS
Maximum Recurrenent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	Volts
Maximum DC Breakdown Voltage	V_{DC}	50	100	200	400	600	Volts
Maximum Average Forward Current at T_C =100℃	$I_{F(AV)}$	10.0					Amp
Peak Forward Surge Current, 8.3ms single half sinewave superimposed on rated olad(JEDEC methode)	I_{FSM}	125					Amps
Maximum Forward Voltage at 5A	V_F	0.95			1.30	1.70	Volts
Maximum DC Reverse Current at T_J=25℃ Rated DC Blocking Voltage T_J=100℃	I_R	1.0 500					μA
Maximum Reverse Recovery Time (NOTE 2)	t_{rr}	35			50		pF
Typical Junction Capacitance (NOTE 1)	C_J	62					℃/W
Typical Thermal Resistance	$R_{\theta JC}$	3.0					℃
Operating and Storage Temperature Range	T_{STG}	-55 ～ +150					℃

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Reverse Recovery Test Conditions: I_F=0.5A, I_R=1A, Irr=0.25A.
3. Both Bonding and Chip structure are availiable.

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RATINGS AND CHARACTERISTIC CURVES

FIG. 1- FORWARD CURRENT DERATING CURVE

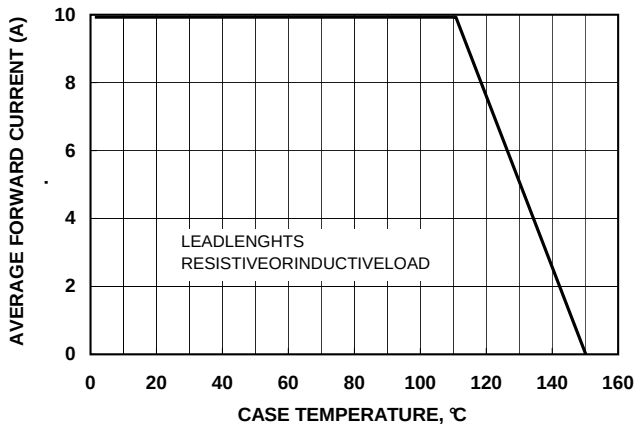

FIG. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

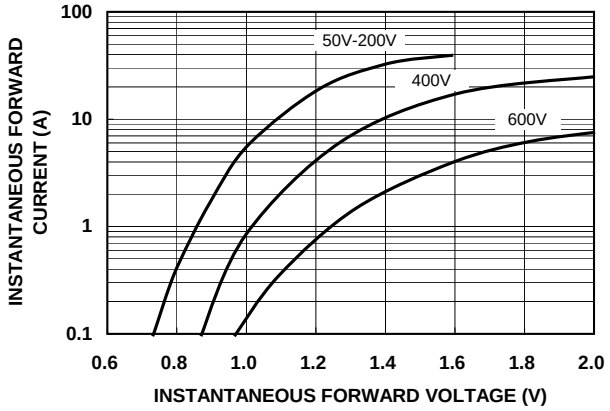

FIG. 3-TYPICAL REVERSE CHARACTERISTICS

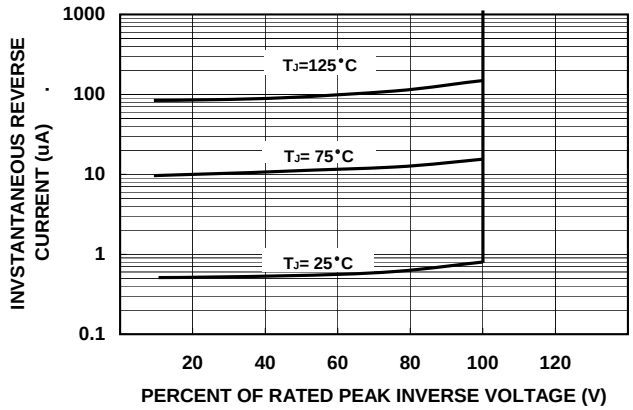

FIG. 4-MAXIMUM NON-REPETITIVE SURGE CURRENT