CURRENT 10 Ampere
VOLTAGE RANG 200 to 1000 Volts

MURF1020AC THRU MURF10100AC

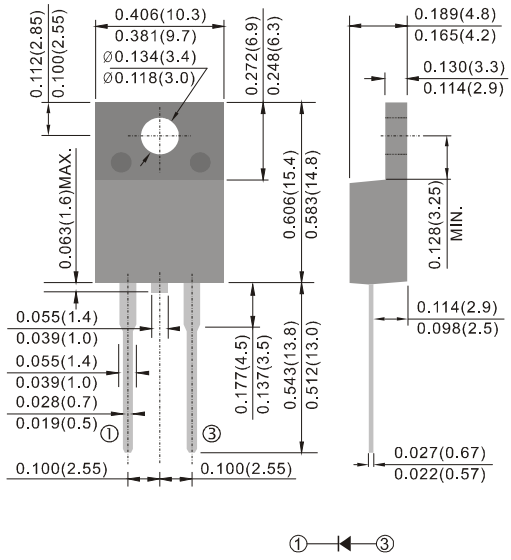
FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
  Flame Retardant Epoxy Molding Compound
- Low power loss, high efficiency
- Low forward voltage, high current capability
- High surge capacity
- Super fast recovery times, high voltage
- Glass passivation junction
- Lead free in compliance with EU RoHS2.0 (2011/65/EU & 2015/865/EU directive)
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: ITO-220AC Molded plastic
- Terminals: Lead solderable per MIL-STD-750, Method 2026
- Polarity: As marked.
- Standard packaging: Any
- Weight: 0.055 ounces, 1.56 grams.

ITO-220AC Unit : inch(mm)



MAXIMUM RATING AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

PARAMETER	SYMBOL	MURF 1020AC	MURF 1040AC	MURF 1060AC	MURF 1080AC	MURF 10100AC	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	200	400	600	800	1000	V
Maximum Average Forward Current at Tc=100°C	$I_{F(AV)}$	10					A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	150					A
Maximum Forward Voltage at 10A, per element	V_F	0.95	1.3	1.5	1.7	1.9	V
Maximum DC Reverse Current at Rated DC Blocking Voltage T_J=25°C T_J=100°C	I_R	10 500					μA
Maximum Reverse Recovery Time (Note 2)	t_{rr}	35			50		ns
Typical Junction capacitance (Note 1)	C_J	62					pF
Typical Thermal Resistance	$R_{\theta JC}$	3					°C / W
Operating Junction and Storage Temperature Range	T_J,T_{STG}	-55 to +150					°C

NOTES :
1. Measured at 1 MHz and applied reverse voltage of 4 VDC.
2. Reverse Recovery Test Conditions: I_F=0.5A, I_R=-1A, Irr=-0.25A.
3. Both Bonding and Chip structure are available.

CURRENT 10 Ampere
VOLTAGE RANG 200 to 1000 Volts

MURF1020AC THRU MURF10100AC

RATING AND CHRACTERISTIC CURVES

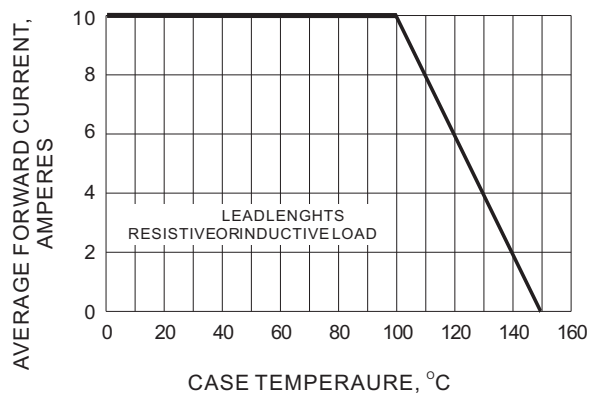


Fig.1- FORWARD CURRENT DERATING CURVE

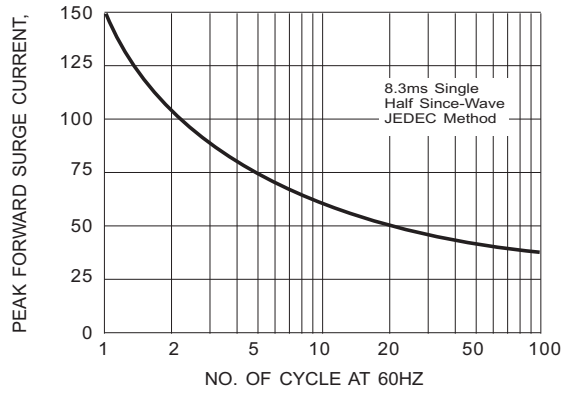


Fig.2- MAXIMUM NON - REPETITIVE SURGE CURRENT

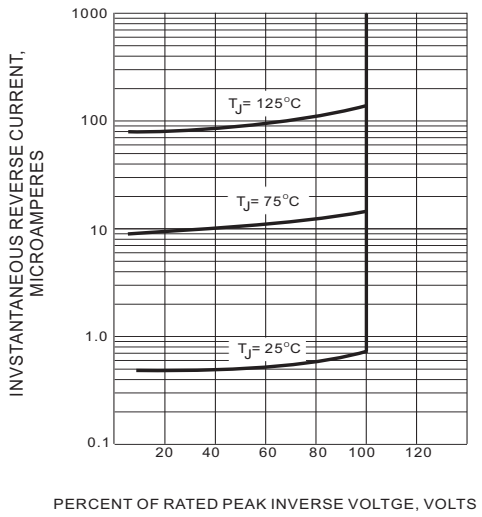


Fig.3- TYPICAL REVERSE CHARACTERISTIC

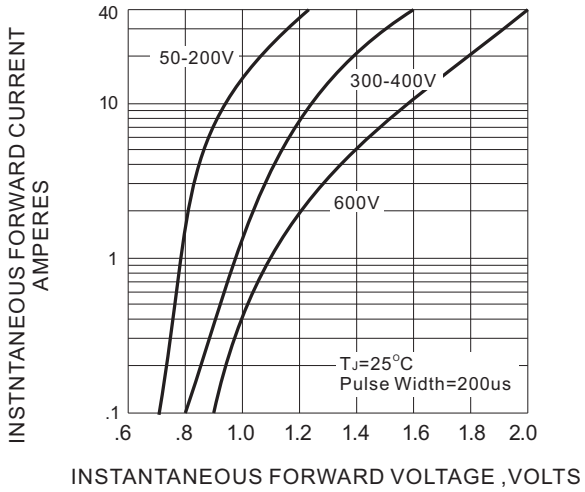


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC