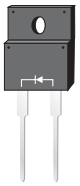
GLASS PASSIVATED SUPER FAST RECTIFIER

Reverse Voltage - 200 -600 Volts
Forward Current - 20.0Amperes

■ FEATURES

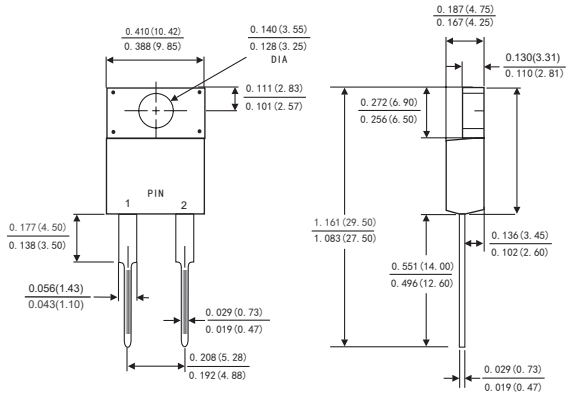
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Fast switching for high efficiency
- Low forward voltage drop
- Fred chip Planer construction
- High surge capability
- High temperature soldering guaranteed:260°C/10 seconds, 0.25"(6.35mm)from case
- Component in accordance to RoHS 2011/65/EU



■ MECHANICAL DATA

- Case: JEDEC ITO-220AC molded plastic body
- Terminals: Lead solderable per MIL-STD-750,method 2026
- Polarity: As marked.
- Mounting Position: Any

ITO-220AC



Dimensions in inches and (millimeters)

■ MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	Symbols	MURF 2020	MURF 2040	MURF 2060	Units
Maximum repetitive peak reverse voltage	V_{RRM}	200	400	600	Volts
Maximum RMS voltage	V_{RMS}	140	280	420	Volts
Maximum DC blocking voltage	V_{DC}	200	400	600	Volts
Maximum average forward rectified current(see Fig.1)	$I_{(AV)}$	20.0			Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	150			Amps
Maximum instantaneous forward voltage at 20.0 A per leg(Note 1)	V_F	1.0	1.3	1.5	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1) T_A=25°C	I_R	10			μA
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1) T_A=125°C	I_R	250			μA
Maximum Reverse Recovery Time (Note 2)	Trr	35	50		ns
Typical thermal resistance (Note 3)	$R_{\theta JC}$	2.5			°C/W
Operating junction temperature range	T_J	-55 to+150			°C
Storage temperature range	T_{STG}	-55 to+150			°C

Notes: 1. Pulse test: 300μs pulse width,1% duty cycle
2. Reverse recovery test conditions I_F=0.5A,I_R=1.0A, Irr=0.25A
3. Thermal resistance from junction to case

■ RATINGS AND CHARACTERISTIC CURVES

FIG.1-FORWARD CURRENT DERATING CURVE

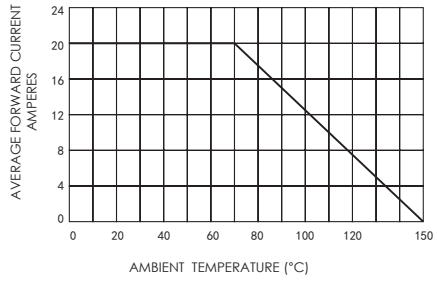


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

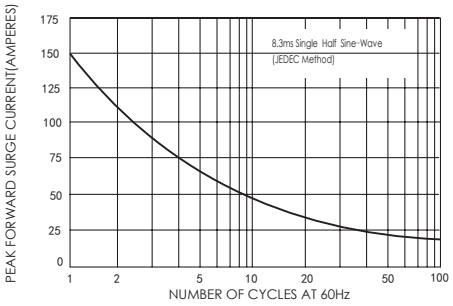


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

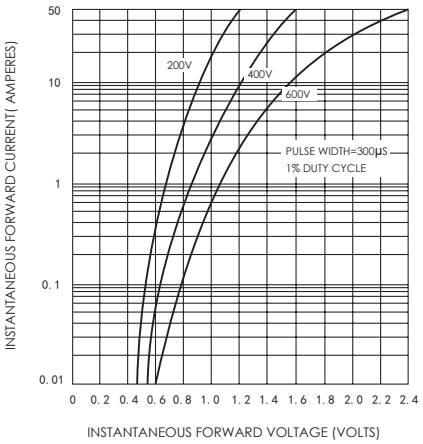


FIG.4-TYPICAL REVERSE CHARACTERISTICS

