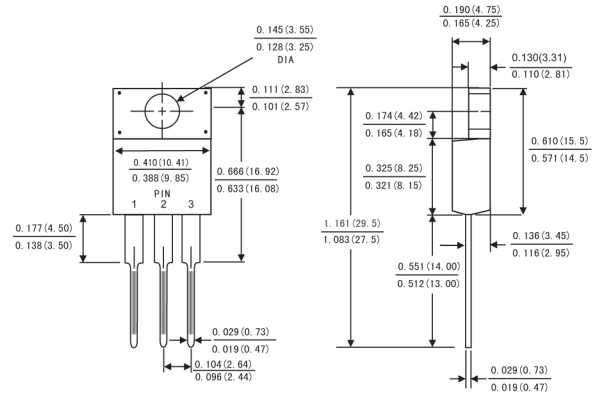


### FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Fast switching for high efficiency
- Low forward voltage drop
- Single rectifier construction
- High surge capability
- For use in low voltage ,high frequency inverters, free wheeling ,and polarity protection applications
- High temperature soldering guaranteed:260°C/10 seconds, 0.25"(6.35mm)from case
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC



### ITO-220AB



Dimensions in inches and (millimeters)

### MECHANICAL DATA

- Case: JEDEC ITO-220AB molded plastic body
- Terminals: Lead solderable per MIL-STD-750,method 2026
- Polarity: As marked.
- Mounting Position: Any
- Weight: 0.08ounce, 2.24 gram

### 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)	Per leg	10.0			Amps
	Total device	20.0			
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	100			Amps
Maximum instantaneous forward voltage at 10.0 A(Note 1 )	$V_F$	0.98	1.25	1.5	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	$T_a = 25^\circ C$	5	10		$\mu A$
	$T_a = 125^\circ C$	500			
Maximum Reverse Recovery Time (Note 2)	$T_{rr}$	35			ns
Typical thermal resistance (Note 3)	$R_{\theta JC}$	2.5			$^\circ C/W$
Operating junction temperature range	$T_J$	-65 to +175			$^\circ C$
Storage temperature range	$T_{STG}$	-65 to +175			$^\circ C$

- Notes: 1. Pulse test: 300μ s pulse width,1% duty cycle  
 2. Reverse recovery test conditions  $I_F=0.5A, I_R=1.0A, I_{rr}=0.5A$   
 3. Thermal resistance from junction to case

# RATINGS AND CHARACTERISTIC CURVES MURF2020 THRU MURF2060

FIG.1-FORWARD CURRENT DERATING CURVE

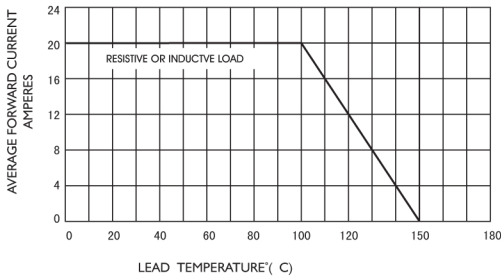


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

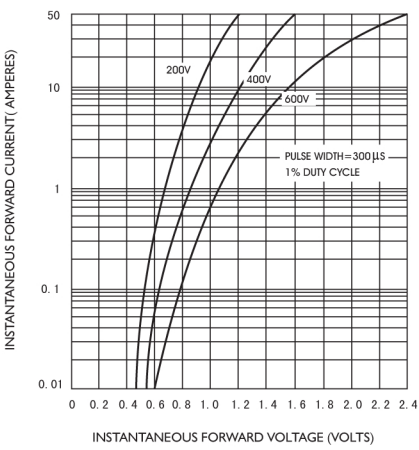


FIG.5-TYPICAL JUNCTION CAPACITANCE

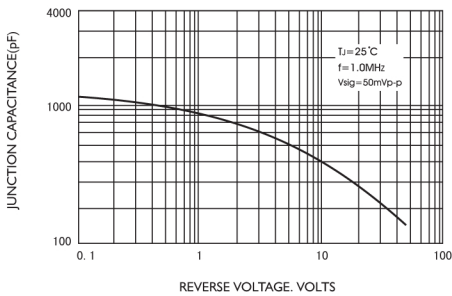


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

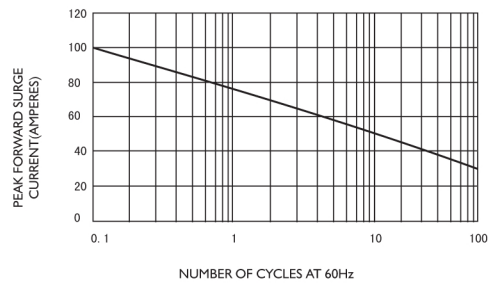


FIG.4-TYPICAL REVERSE CHARACTERISTICS

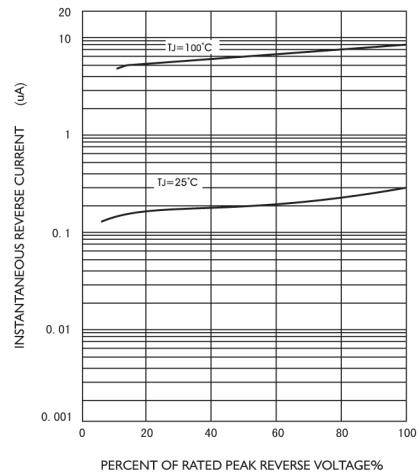


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE

