

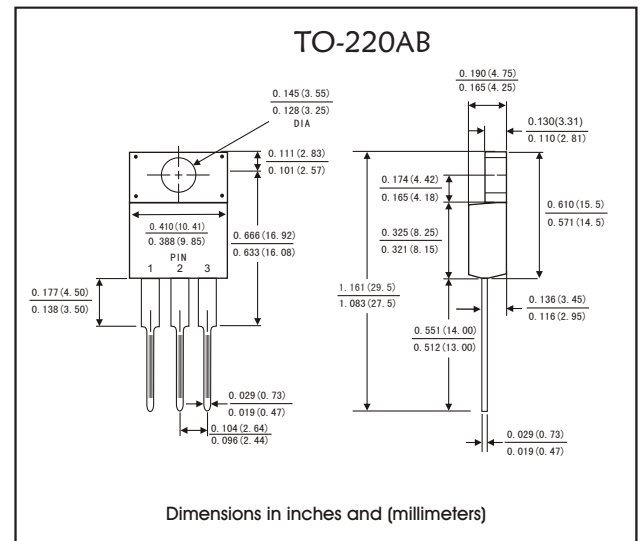
TO-220AB SUPER FAST RECTIFIERS

FEATURES

- 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

MECHANICAL DATA

- Case style:TO-220AB molded plastic
- Mounting position:any



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

		Symbols	MURF 1620CT	MURF 1640CT	MURF 1660CT	Units
Maximum repetitive peak reverse voltage		VRRM	200	400	600	Volts
Maximum RMS voltage		VRMS	140	280	420	Volts
Maximum DC blocking voltage		VDC	200	400	600	Volts
Maximum average forward rectified current(see Fig.1)	Per leg	I(AV)	8.0			Amps
	Total device					
Peak foward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		IFSM	100			Amps
Maximum instantaneous forward voltage at 10.0 A(Note 1)		VF	0.975	1.3	1.7	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	TA=25°C	IR	5	10		uA
	TA=25°C		500			
Maximum Reverse Recovery Time (Note 2)		Trr	35			ns
Typical thermal resistance (Note 3)		RθJC	3.0			°C/W
Operating junction temperature range		TJ	-65 to +175			°C
Storage temperature range		TSTG	-65 to +175			°C

Notes: 1. Pulse test: 30 μs pulse width,1% duty cycle

2. Reverse recovery test conditions $I_F=0.5A, I_R=1.0A, I_{rr}=0.25A$

3. Thermal resistance from junction to case

RATINGS AND CHARACTERISTIC CURVES

FIG.1-FORWARD CURRENT DERATING CURVE

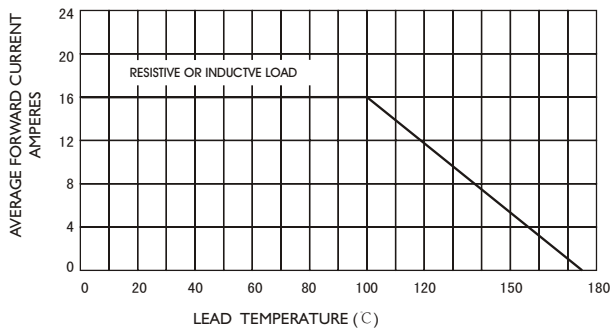


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

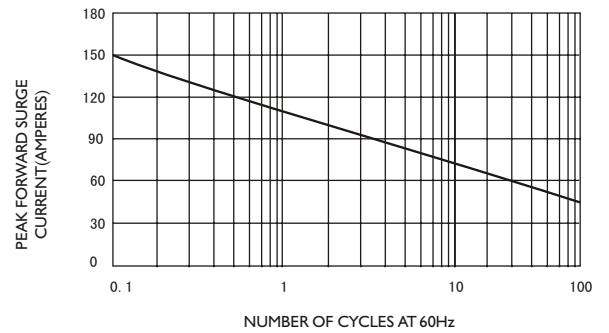


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

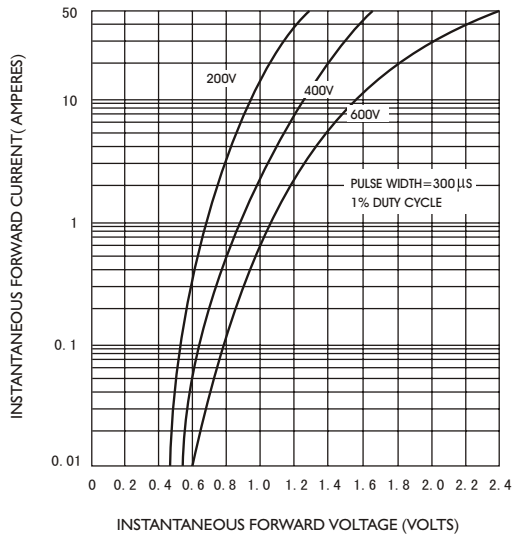


FIG.4-TYPICAL REVERSE CHARACTERISTICS

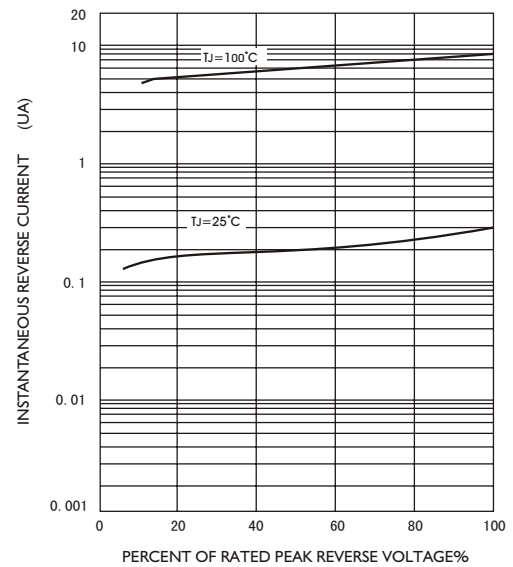


FIG.5-TYPICAL JUNCTION CAPACITANCE

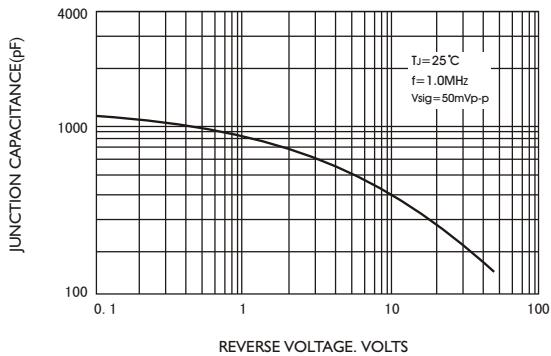


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE

