

MURF1620CT - MURF1660CT

Voltage Range - 200 to 600 V Forward Current - 16 Ampere

GLASS PASSIVATED SUPER FAST RECTIFIER

FEATURES

- High Performance & Reliability best suited for Automotive application
- 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

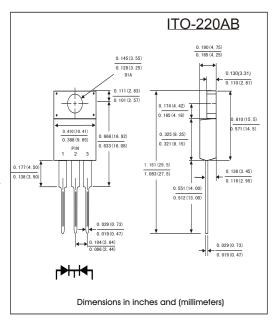


Case: JEDEC ITO-220AB molded plastic body

Terminals: Lead solderable per MIL-STD-750 method 2026

Polarity: As marked
 Mounting Position: Any

• Weight: 0.08ounce, 2.24 gram



MAXIMUM RATING AND ELECTRICAL CHARACTERISTICS

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

PARAMETER		Symbols	MURF1620CT	MURF1640CT	MURF1660CT	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		$V_{ m DC}$	200	400	600	Volts
Maximum average forward rectified current(Fig.1)	Per leg	I _(AV)	8.0			
	Total Device			16.0	Amps	
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load(JEDEC method)		I _{FSM}	150			Amps
Maximum instantaneous forward voltage at 16.0 A(Note1)		V _F	0.975	1.3	1.5	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note1)	Ta=25 °C	I _R	5		10	uA
	Ta=125 °C			500		
Maximum Reverse Recovery Time(Note 2)		Trr	35			ns
Typical thermal resistance(Note 3)		R _θ JC	3.0			° C/ W
Operating junction temperature range		Т	-65 to +175			°C
Storage temperature range		T _{STG}	-65 to +175			$^{\circ}$

Notes:

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

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RATING AND CHARACTERISTIC CURVES MURF1620CT - MURF1660CT

FIG.1-FORWARD CURRENT DERATING CURVE

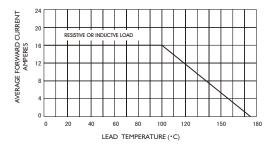


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

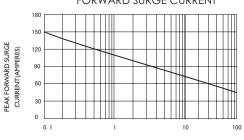


FIG.3-TYPICAL INSTANTANEOUS FORWARD

CHARACTERISTICS

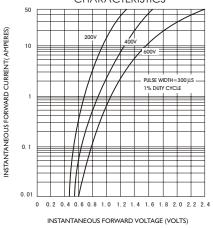


FIG.4-TYPICAL REVERSE CHARACTERISTICS

NUMBER OF CYCLES AT 60Hz

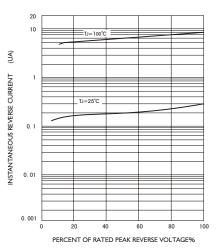


FIG.5-TYPICAL JUNCTION CAPACITANCE

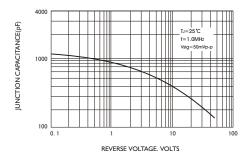
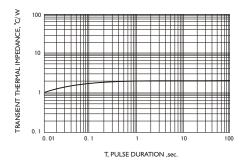


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE



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