

Pb Free Plating Product

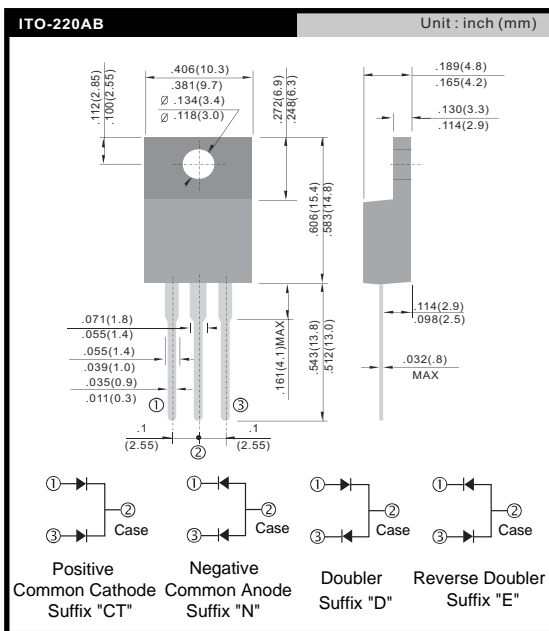
MURF1605 thru MURF1660



16.0 Ampere Isolated Glass Passivated Ultra Fast Recovery Rectifier

<p>Features</p> <ul style="list-style-type: none"> * Fast switching for high efficiency * Low forward voltage drop * High current capability * Low reverse leakage current * High surge current capability <p>Application</p> <ul style="list-style-type: none"> * Automotive Environment DC Motor Control * Plating Power Supply UPS * Amplifier and Sound Device System etc..

<p>Mechanical Data</p> <ul style="list-style-type: none"> * Case: Molded plastic Isolated/Insulated ITO-220AB * Epoxy: UL 94V-0 rate flame retardant * Terminals: Solderable per MIL-STD-202 method 208 * Polarity: As marked on diode body * Mounting position: Any * Weight: 2.03 grams
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MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

	COMMON CATHODE POLARITY SUFFIX "N"	COMMON ANODE POLARITY SUFFIX "D"	REVERSE POLARITY SUFFIX "E"	SYMBOL	MURF1605CT	MURF1610CT	MURF1620CT	MURF1630CT	MURF1640CT	MURF1660CT	UNIT
Maximum Recurrent Peak Reverse Voltage				VRRM	50	100	200	300	400	600	V
Maximum RMS Voltage				VRMS	35	70	140	210	280	420	V
Maximum DC Blocking Voltage				VDC	50	100	200	300	400	600	V
Maximum Average Forward Rectified Current Tc=100°C				IF(AV)	16.0					A	
Peak Forward Surge Current, 8.3ms single Half sine-wave superimposed on rated load (JEDEC method)				IFSM	175			150		A	
Maximum Instantaneous Forward Voltage @ 8.0 A				VF	0.98		1.3		1.7	V	
Maximum DC Reverse Current @Tj=25°C				IR	10.0					uA	
At Rated DC Blocking Voltage @Tj=125°C				IR	250					uA	
Maximum Reverse Recovery Time (Note 1)				Trr	35					nS	
Typical junction Capacitance (Note 2)				CJ	90					pF	
Typical Thermal Resistance (Note 3)				RθJC	2.2					°CW	
Operating Junction and Storage Temperature Range				TJ, TSTG	-55 to + 150					°C	

NOTES : (1) Reverse recovery test conditions IF = 0.5A, R = 1.0A, Irr = 0.25A.

(2) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts DC.

(3) Thermal Resistance junction to case.

FIG.1 - FORWARD CURRENT DERATING CURVE

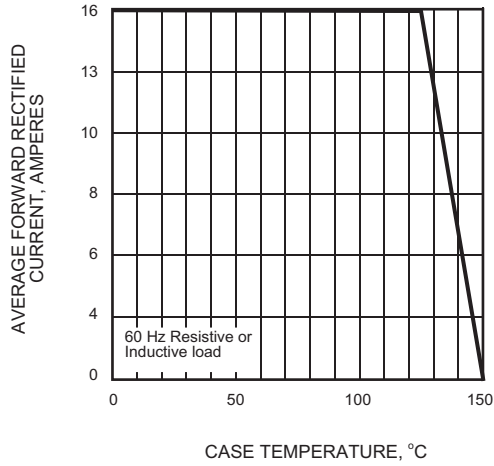


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

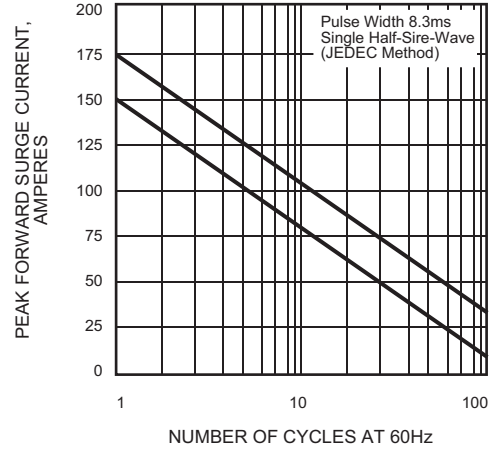


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

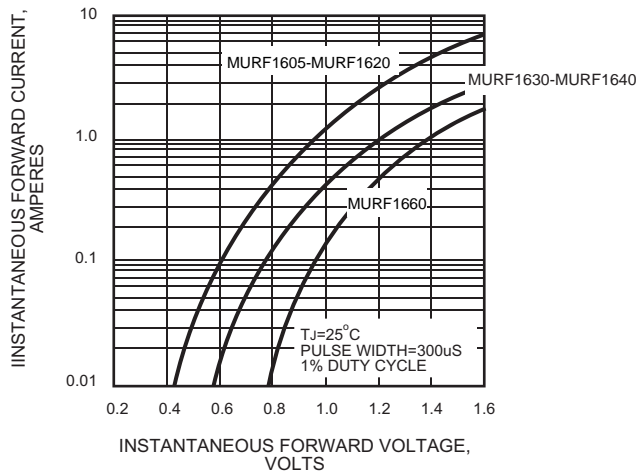


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

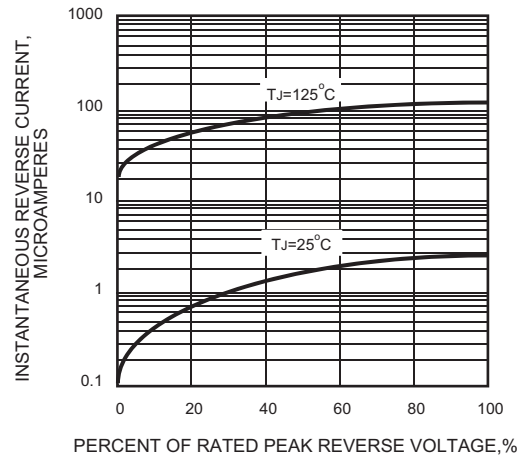


FIG.5 - TYPICAL JUNCTION CAPACITANCE

