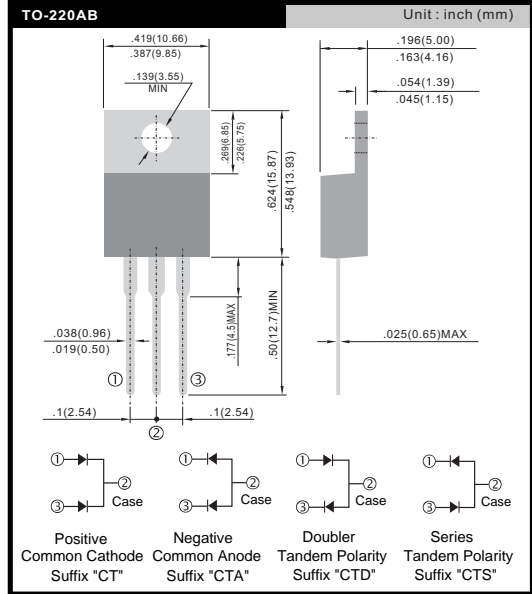


Pb Free Plating Product

MUR2020CTA/MUR2040CTA/MUR2060CTA

20.0 Ampere Heatsink Dual Common Anode Ultra Fast Recovery Rectifiers

<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 Inverters and Solar Inverters * Plating Power Supply, SMPS and UPS * Car Audio Amplifiers and Sound Device Systems
<p>Mechanical Data</p> <ul style="list-style-type: none"> * Case: Heatsink TO-220AB open metal package * 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: 2.2 gram approximately



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%.

	SYMBOL	MUR2020CTA	MUR2040CTA	MUR2060CTA	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	200	400	600	V
Maximum RMS Voltage	V _{RMS}	140	280	420	V
Maximum DC Blocking Voltage	V _{DC}	200	400	600	V
Maximum Average Forward Rectified Current T _c =125 °C (Total Device 2x10A=20A)	I _{F(AV)}	20.0			A
Peak Forward Surge Current, 8.3ms single Half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	200			A
Maximum Instantaneous Forward Voltage @ 10.0 A (Per Diode/Per Leg)	V _F	0.98	1.3	1.7	V
Maximum DC Reverse Current @T _J =25 °C At Rated DC Blocking Voltage @T _J =125 °C	I _R	5.0 100			μA μA
Maximum Reverse Recovery Time (Note 1)	T _{rr}	35			nS
Typical junction Capacitance (Note 2)	C _J	120	70		pF
Typical Thermal Resistance (Note 3)	R _{θJC}	2.0			°C/W
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-55 to + 150			°C

NOTES : (1) Reverse recovery test conditions I_F = 0.5A, R = 1.0A, I_{rr} = 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

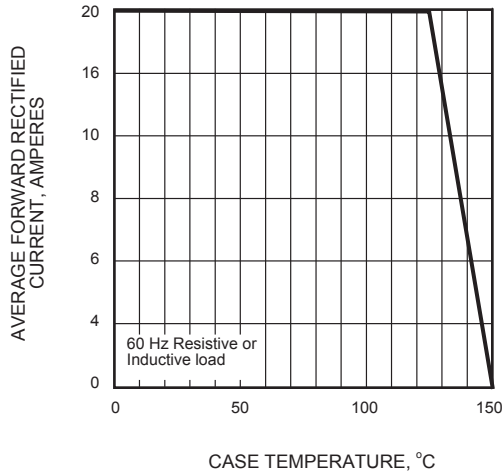


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

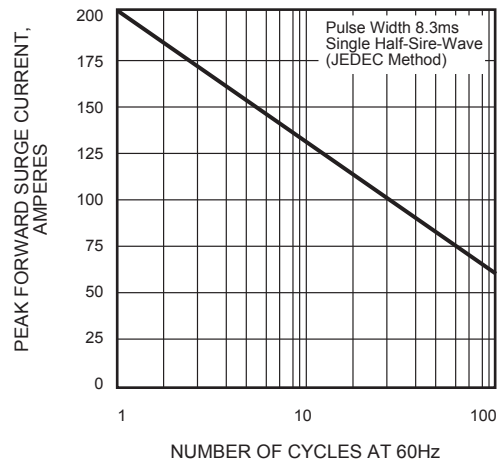


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

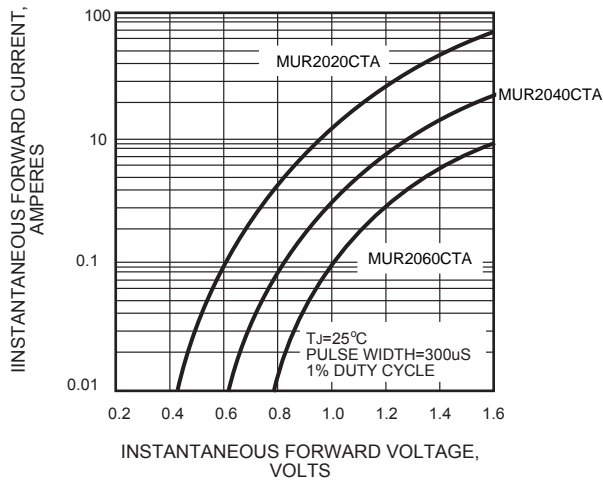


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

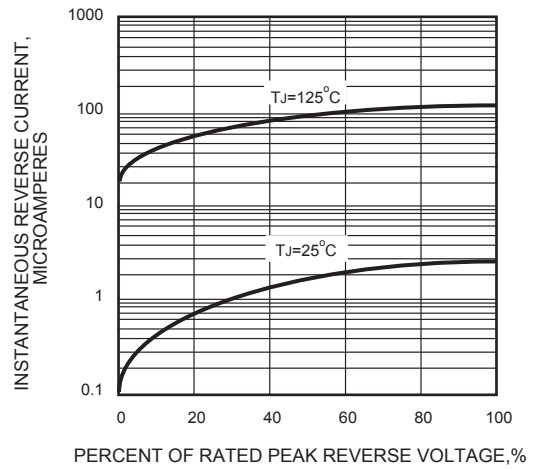


FIG.5 - TYPICAL JUNCTION CAPACITANCE

