Pb Free Plating Product

MURF1620CTA/MURF1640CTA/MURF1660CTA

16 Ampere Insulated Common Anode Fast Recovery Half Bridge Rectifiers

Features

- Latest GPP technology with super fast recovery time
- Low forward voltage drop
- High current capability
- Low reverse leakage current
- High surge current capability

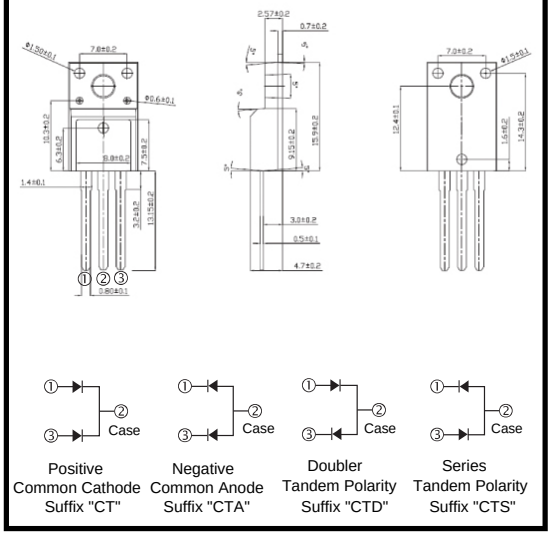
Application

- Automotive Inverters and Solar Inverters
- Plating Power Supply,SMPS,Motor Control and UPS
- Car Audio Amplifiers and Sound Device Systems

Mechanical Data

- Case: Fully Isolated Molding TO-220FP
- 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: 2.0 gram approximately

ITO-220AB Unit:mm



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

	SYMBOL	MURF1620CTA	MURF1640CTA	MURF1660CTA	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=100°C	$I_{F(AV)}$	16.0			A
Peak Forward Surge Current, 8.3ms single Half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	175	150		A
Maximum Instantaneous Forward Voltage @ 8.0 A	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			uA uA
Maximum Reverse Recovery Time (Note 1)	Trr	35			nS
Typical junction Capacitance (Note 2)	C_J	90			pF
Typical Thermal Resistance (Note 3)	$R_{\theta JC}$	2.2			℃/W
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-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.

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FIG.1 - FORWARD CURRENT DERATING CURVE

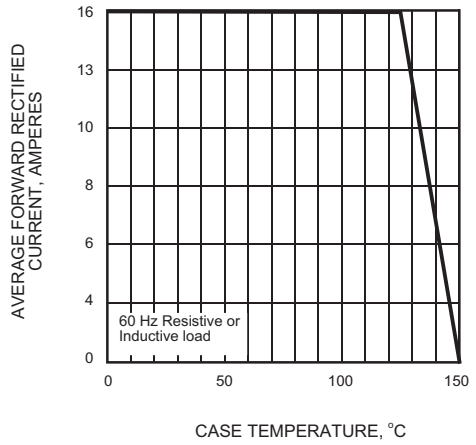


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

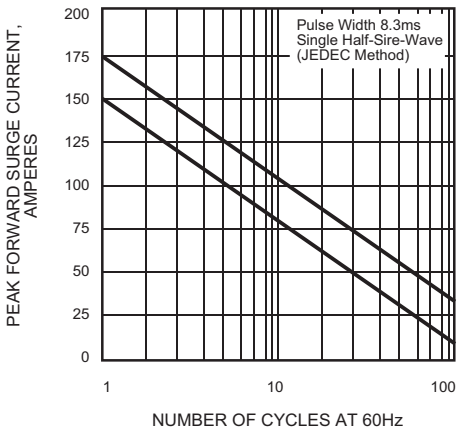


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

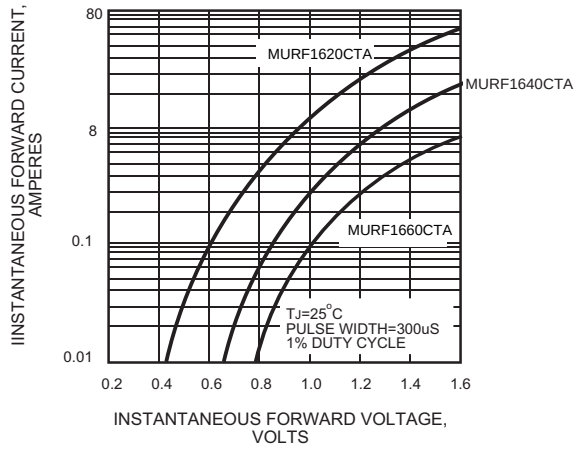


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

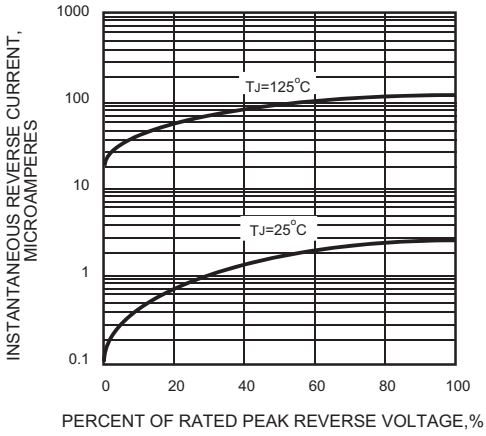
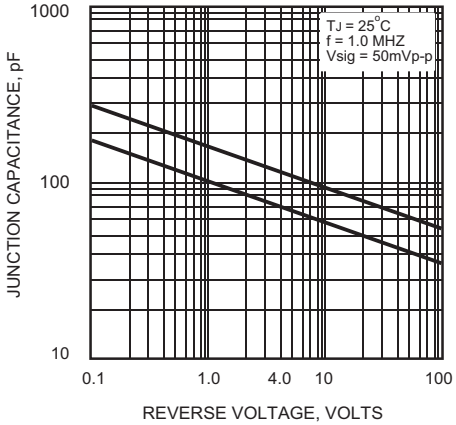


FIG.5 - TYPICAL JUNCTION CAPACITANCE



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