

MURF1005CT THRU MURF1040CT

PRV : 50 - 200 Volts
Io : 10 Ampere

FEATURES :

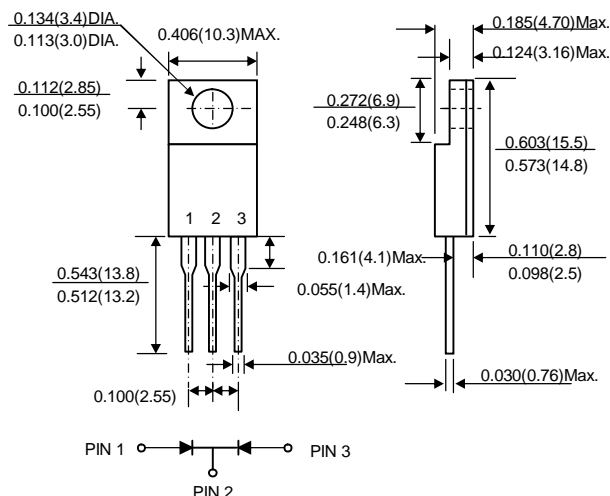
- * Ideally suited for free wheeling diode power factor correction applications
- * Soft recovery characteristics
- * Excellent high temperature switching
- * Glass passivated chip junction
- * **Pb / RoHS Free**

MECHANICAL DATA :

- * Case : Epoxy, Molded
- * Lead Temperature for Soldering Purposes:
260°C Max. for 10 Seconds
- * Polarity: As marked
- * Mounting Position: Any
- * Weight : 2.24 grams (Approximately)

Dual Ultrafast Plastic Rectifiers

ITO-220AB



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_c = 25°C unless otherwise specified.)

RATING	SYMBOL	MURF						UNIT
		1005CT	1010CT	1015CT	1020CT	1030CT	1040CT	
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	150	200	300	400	V
Maximum RMS Voltage	V _{RMS}	35	70	105	140	210	280	V
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	300	400	V
Maximum Average Forward Current, T _c = 100°C	I _{F(AV)}	5.0						A
		10 (Total Device)						
Maximum Peak Forward Surge Current, 8.3ms Single half sine wave superimposed on rated load (JEDEC Method)	I _{FSM}	150						A
Maximum Instantaneous Forward Voltage per Leg at I _F = 5 A, T _j = 25°C	V _F	0.95			1.3			V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	5.0 (T _c = 25°C)						μA
	I _{R(H)}	500 (T _c = 100°C)						μA
Maximum Reverse Recovery Time (I _F = 0.5A, I _R = 1.0A, I _{rr} = 0.25A)	T _{rr}	35			50			ns
Operating storage and temperature range	T _J , T _{STG}	- 65 to + 150						°C

RATING AND CHARACTERISTIC CURVES (MURF1005CT - MURF1040CT)

FIG.1 - MAXIMUM FORWARD CURRENT DERATING CURRENT

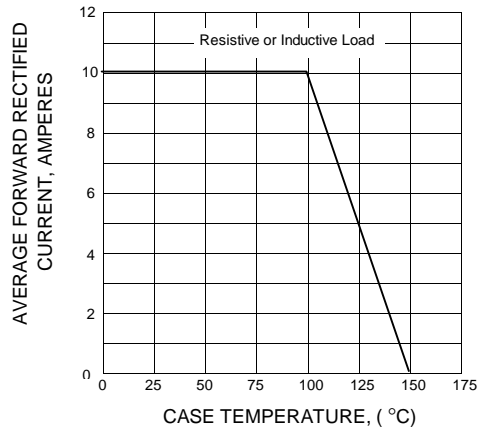


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

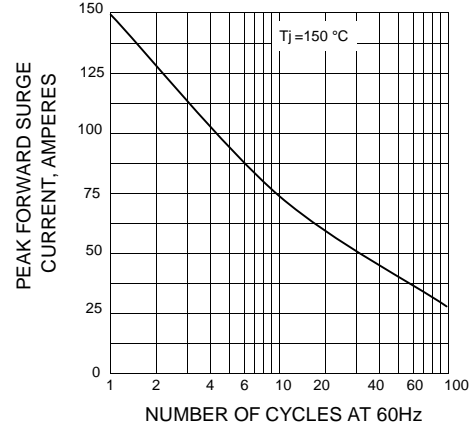


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

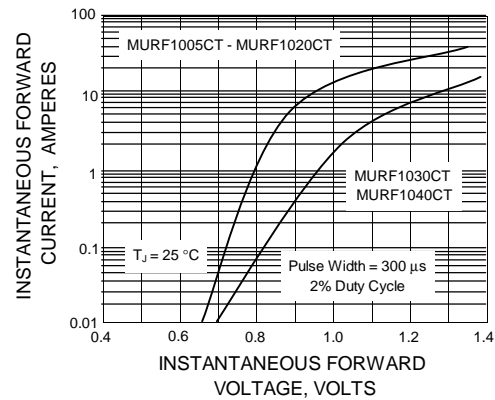


FIG. 4 - TYPICAL REVERSE LEAKAGE CHARACTERISTICS

