Certificate Number: Q10561

Certificate Number: E17276

MURF1005CT
THRU MURF1040CT

PRV : 50 - 200 Volts
Io : 10 Ampere

Dual Ultrafast Plastic Rectifiers

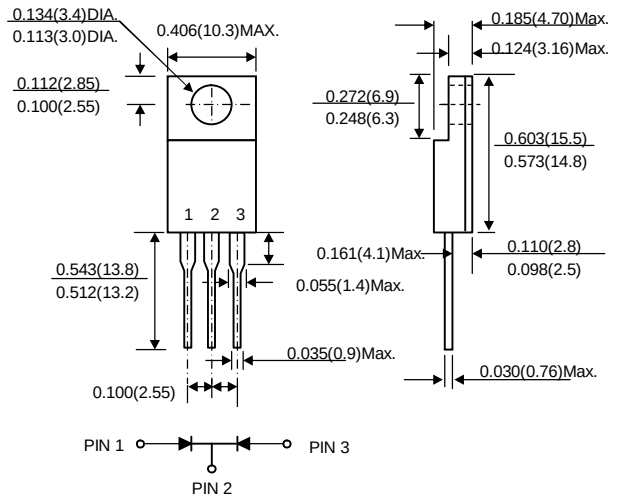
FEATURES :

* 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)

ITO-220AB



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (Tc =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, Tc = 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, Tj = 25°C	V_F	0.95				1.3		V
Maximum DC Reverse Current	I_R	5.0 (Tc = 25°C)						µA
at Rated DC Blocking Voltage	$I_{R(H)}$	500 (Tc = 100°C)						µA
Maximum Reverse Recovery Time (I_F = 0.5A, I_R = 1.0A, Irr = 0.25A)	Trr	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

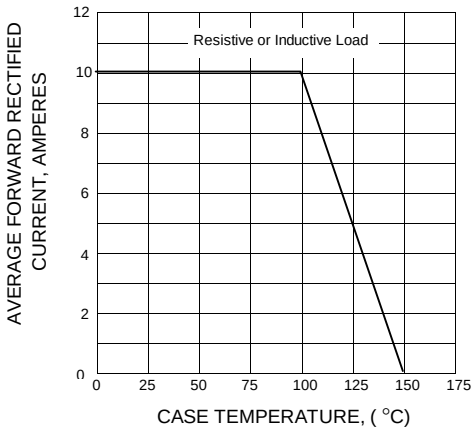


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

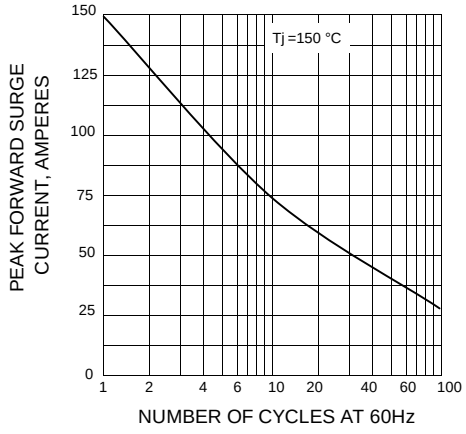


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

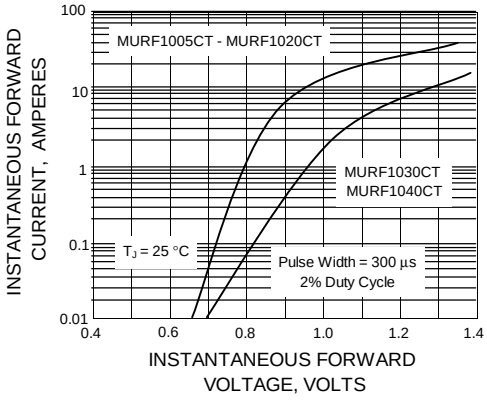


FIG. 4 - TYPICAL REVERSE LEAKAGE CHARACTERISTICS