

MURF1005CT THRU MURF1060CT

SUPER FAST RECOVERY SILICON RECTIFIER

Reverse Voltage - 50 to 600 Volts Forward Current - 10.0 Ampere

FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Super fast switching for high efficiency
- Low reverse leakage
- High forward surge current capability
 High temperature soldering guaranteed: 250°C/10 seconds,0.25″(6.35mm) from case

MECHANICAL DATA

- Case: JEDEC ITO-220AB molded plastic body
- Terminals: Plated leads, solderable per MIL-STD-750, Method 2026
- High temperature soldering guaranteed: 250°C/10 seconds, 0.25" (6.35mm) from case
- Polarity: As marked
- Mounting Position: Any
- Mounting Torque: 10 in-lbs maximum
- Weight: 0.08 ounce, 2.24 grams





MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Characteristic	Symbol	MURF 1005CT	MURF 1010CT	MURF 1015CT	MURF 1020CT	MURF 1030CT	MURF 1040CT	MURF 1060CT	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	50	100	150	200	300	400	600	V
RMS Reverse Voltage	VR(RMS)	35	70	105	140	210	280	420	V
Average Rectified Output Current $@T_c = 100^{\circ}C$	lo	10							А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	150						A	
Forward Voltage $@I_F = 5.0A$	VFM	0.95 1.3 1.7					V		
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 125^{\circ}C$	Ігм	10 400							μA
Reverse Recovery Time (Note 1)	trr	35 50					50		nS
Typical Junction Capacitance (Note 2)	Cj	80 50					pF		
Operating and Storage Temperature Range	Tj, Tstg	-65 to +150						°C	

Note: 1. Measured with IF = 0.5A, IR = 1.0A, IRR = 0.25A.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.



MURF1005CT THRU MURF1060CT RATINGS AND CHARACTERISTIC CURVES



