

MURD1020CT - MURD1060CT

10A SURFACE MOUNT GLASS PASSIVATED DUAL SUPERFAST RECTIFIER

Features

- Fred Chip Planar Construction
- Ideally Suited for Automatic Assembly
- Low Profile Package
- High Surge Current Capability
- Low Power Loss, High Efficiency
- Super-Fast Recovery Time
- Ideally Suited for Use in High Frequency SMPS, Inverters, and As Free Wheeling Diodes

Mechanical Data

Case: DPAK/TO-252, Molded Plastic Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: See Diagram

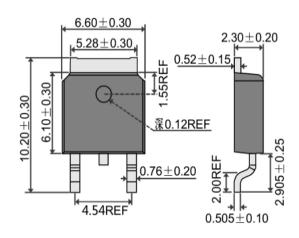
Weight: 0.3 grams (approx.)

Mounting Position: Any

Marking: Device Code, See Page 3

Lead Free: For RoHS / Lead Free Version

DPAK/TO-252





Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

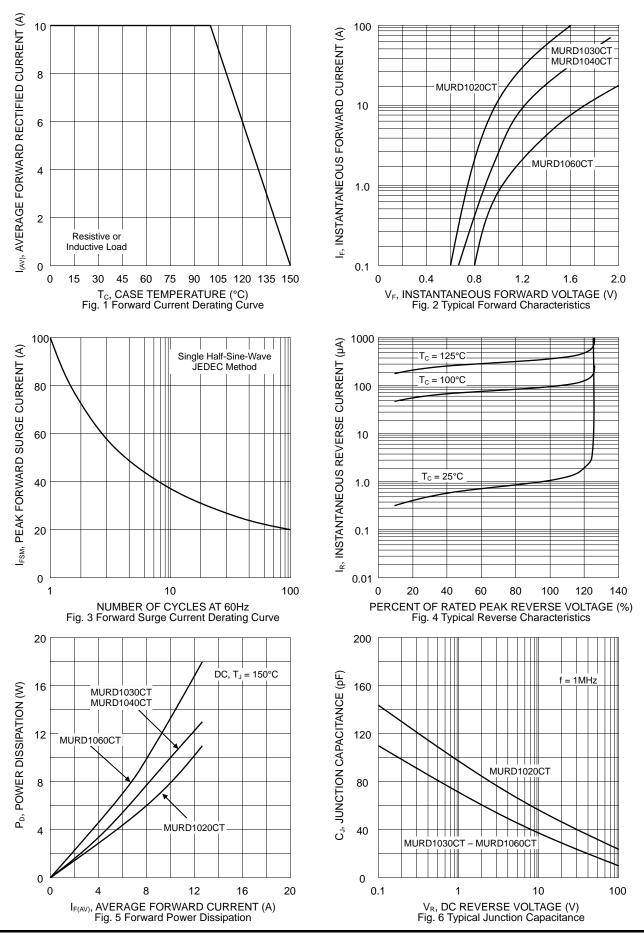
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic		Symbol	MURD 1020CT	MURD 1030CT	MURD 1040CT	MURD 1060CT	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		Vrrm Vrwm Vr	200	300	400	600	V
RMS Reverse Voltage		VR(RMS)	140	210	280	420	٧
Average Rectified Output Current @T _C = 100°C	Total Device Per Diode	lo	10 5.0				Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)		IFSM	100				А
Forward Voltage per diode	$@I_F = 5.0A$	VFM	0.95	1	.3	1.7	V
Peak Reverse Current At Rated DC Blocking Voltage	@T _C = 25°C @T _C = 100°C	lкм	10 500			μΑ	
Reverse Recovery Time (Note 1)		t _{rr}	35 50			nS	
Typical Junction Capacitance (Note 2)		Сл	70 50			pF	
Thermal Resistance Junction to Ambient (Note 3) Thermal Resistance Junction to Lead (Note 3)		R JA R JC	80 6.5				°C/W
Operating and Storage Temperature Range		TJ, TSTG	-55 to +150				°C

1. Measured with I_F = 0.5A, I_R = 1.0A, I_{RR} = 0.25A. 2. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.

3. Mounted on PCB with minimum recommended pad sizes per diode.

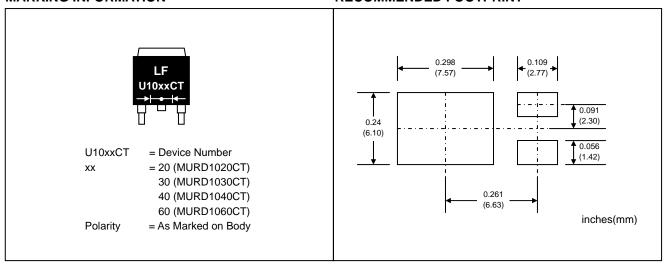
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MARKING INFORMATION

RECOMMENDED FOOTPRINT



PACKAGING INFORMATION

