## MURD620CT - MURD660CT

**DPAK/TO-252** 

### 6.0A 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

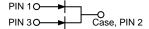
Marking: Device Code, See Page 3

Lead Free: For RoHS / Lead Free Version

### $6.60 \pm 0.30$ $2.30 \pm 0.20$ $5.28 \pm 0.30$ $0.52 \pm 0.15$ $6.10 \pm 0.30$ $10.20 \pm 0.30$ 深0.12REF

 $0.76 \pm 0.20$ 





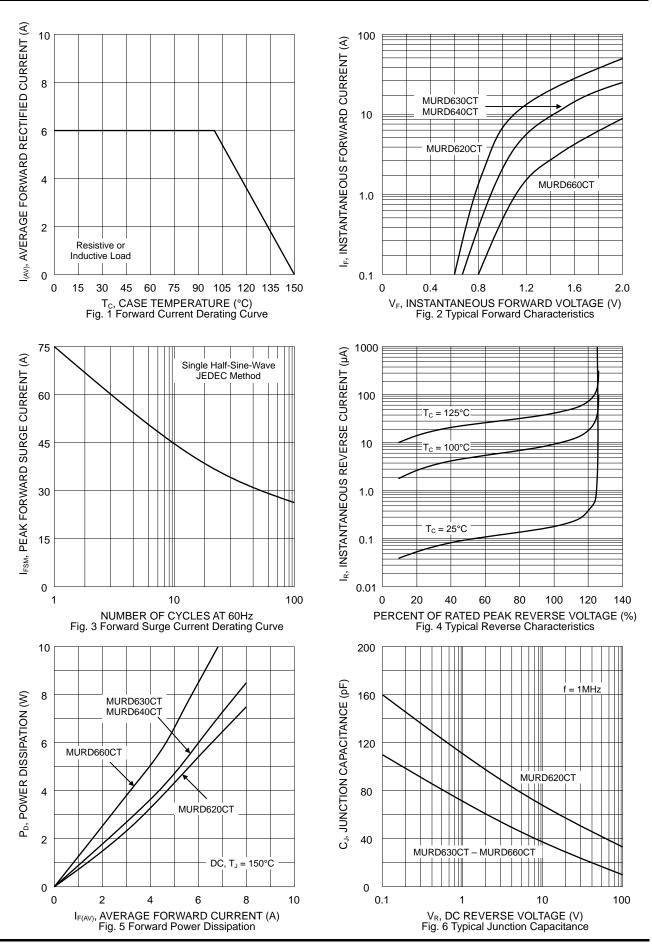
### Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

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

Characteristic		Symbol	MURD620CT	MURD630CT	MURD640CT	MURD660CT	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	<b>V</b>
Average Rectified Output Current @T <sub>C</sub> = 100°C	Total Device Per Diode	lo	6.0 3.0				Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)		IFSM	75				Α
Forward Voltage per diode	$@I_F = 3.0A$	VFM	0.95	1	.3	1.7	٧
Peak Reverse Current At Rated DC Blocking Voltage	@T <sub>C</sub> = 25°C @T <sub>C</sub> = 100°C	IRM	10 500			μΑ	
Reverse Recovery Time (Note 1)		t <sub>rr</sub>	35				nS
Typical Junction Capacitance (Note 2)		Cı	85 50			pF	
Thermal Resistance Junction to Ambient (Note 3) Thermal Resistance Junction to Lead (Note 3)		R JA R JC	80 9.0				°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.

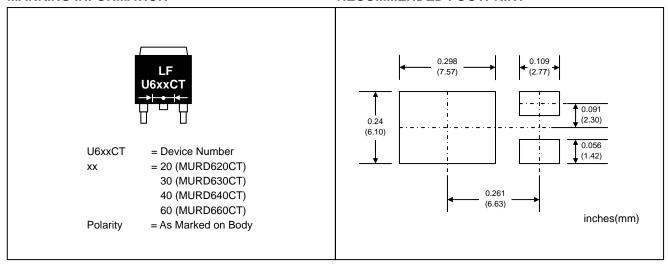
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## **MURD620CT - MURD660CT**

### **MARKING INFORMATION**

### **RECOMMENDED FOOTPRINT**



#### **PACKAGING INFORMATION**

