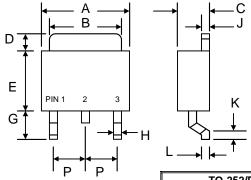


SEMICONDUCTOR TECHNICAL DATA

Super fast Rectifier Reverse Voltage 200 to 600 Volts, Forward Current 10Ampers

Features

- **Glass Passivated Die 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: TO-252/DPAK, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: See Diagram
- Weight: 0.3 grams (approx.)
- Mounting Position: Any

	А	6.
	В	5.
O Case, PIN 2	С	2.
	D	1.
	E	5.
	G	2.
	Н	0.

TO-252/DPAK				
Dim	Min	Max		
А	6.05	6.65		
В	5.05	5.55		
С	2.25	2.40		
D	1.05	1.25		
E	5.48	6.08		
G	2.55	3.00		
Н	0.55	0.90		
J	0.49	0.55		
К	0.95	1.25		
L	0.49	0.55		
Р	2.30 Typical			
All Dimensions in mm				

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	V
Average Rectified Output CurrentTotal De $@T_c = 100^{\circ}C$ Per Dio		10 5.0			A	
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed o Rated Load (JEDEC Method)	n Ifsm	100				A
Forward Voltage per diode @I _F =	5.0A VFM	0.95	1	.3	1.7	V
Peak Reverse Current $@T_c =$ At Rated DC Blocking Voltage $@T_c =$	= 25°C 100°C	10 500				μA
Reverse Recovery Time (Note 1)	t _{rr}	35		50		nS
Typical Junction Capacitance (Note 2)	CJ	70		50		pF
Thermal Resistance Junction to Ambient (Note Thermal Resistance Junction to Lead (Note 3)	3) R _{0JA} R _{0JC}		8	0 .5		°C/W
Operating and Storage Temperature Range	TJ, TSTG		-55 to	+150		°C

PIN 10-

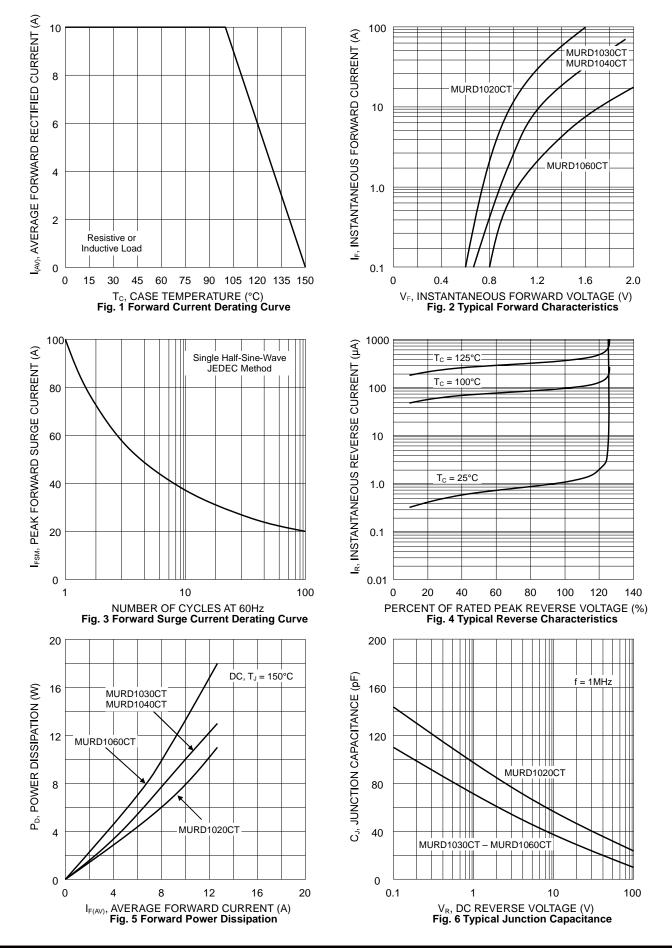
PIN 3O

Note: 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.



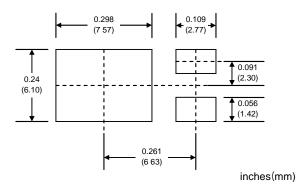


Ratings and Characteristics Curves



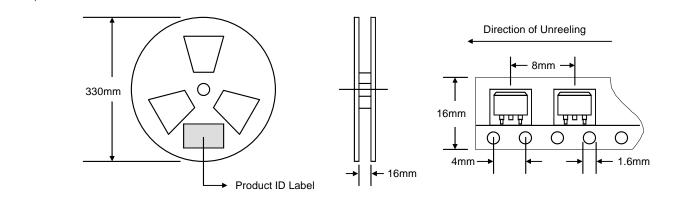


Recommended Footprint



Packaging Information

TAPE & REEL



Reel Diameter	Quantity	Inner Box Size	Quantity	Carton Size	Quantity	Approx. Gross Weight
(mm)	(PCS)	L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	(KG)
330	2,500	340 x 337 x 45	5,000	370 x 370 x 420	40,000	18.0

Note: 1. Paper reel, white or gray color.

2. Components are packed in accordance with EIA standard 481-1 and 481-2.