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MURB1620CT ULTRAFAST PLASTIC RECTIFIER

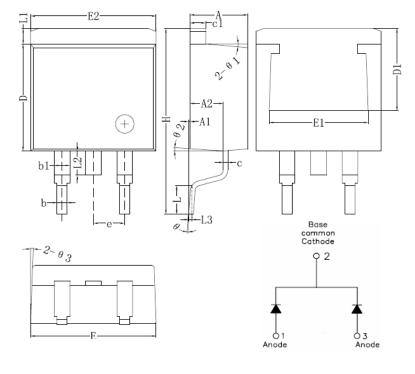
Applications:

- Switching Power Supply
- Power Switching Circuits
- General Purpose

Features:

- Ultra-Fast Switching
- High Current Capability
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Mechanical Dimensions: In mm



Symbol	Dimensions in				
	millimeters				
	Min.	Typical	Max.		
Α	4.55	4.70	4.85		
A1	0	0.10	0.25		
A2	2.59	2.69	2.89		
b	0.71	0.81	0.96		
b1		1.27			
С	0.36	0.38	0.61		
c1	1.17	1.27 1.37			
D	8.55	8.70	8.70 8.85		
D1	6.40				
E	10.01	10.16	10.31		
E1	7.6				
E2	9.98	10.08	10.18		
е		2.54			
Н	14.6	15.1	15.6		
L	2.00	2.30 2.70			
L1	1.17	1.27	1.27 1.40		
L2			2.20		
L3		0.25BSC			
е	0	-	8°		
e1		5°			
e2		4°			
e3		4°			

D² PAK

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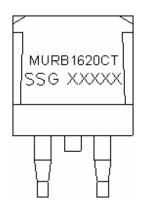
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Marking Diagram:



Where XXXXX is YYWWL

MUR = Device Type B = Package type

16 = Forward Current (16A) 20 = Reverse Voltage (200V)

CT = Configuration

SSG = SSG YY = Year WW = Week L = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping	
MURB1620CT	D ² PAK	200500/1001	
	(Pb-Free)	800pcs/ reel	

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.

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

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

Characteristic	Symbol	MURB1620CT	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	200	V
Average Rectified Output Current @T _A = 55°C	lo	16.0	А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	125	А
Forward Voltage (per element) @I _F = 8.0A, T _J =25°C	V_{FM1}	1.5	V
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 125°C	I _R	10 500	μA
Maximum Reverse Recovery Time (Note 1)	Trr	35	ns
Typical Junction Capacitance (Note 2)	C _J	80	pF
Operating and Storage Temperature Range	T_J,T_STG	-55 to +150	°C
Approximate Weight	wt	1.85	g
Case Style	D ² PAK		

Note: 1.Measured with I_F =0.5A; I_R =1.0A; I_{RR} =0.25A.

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

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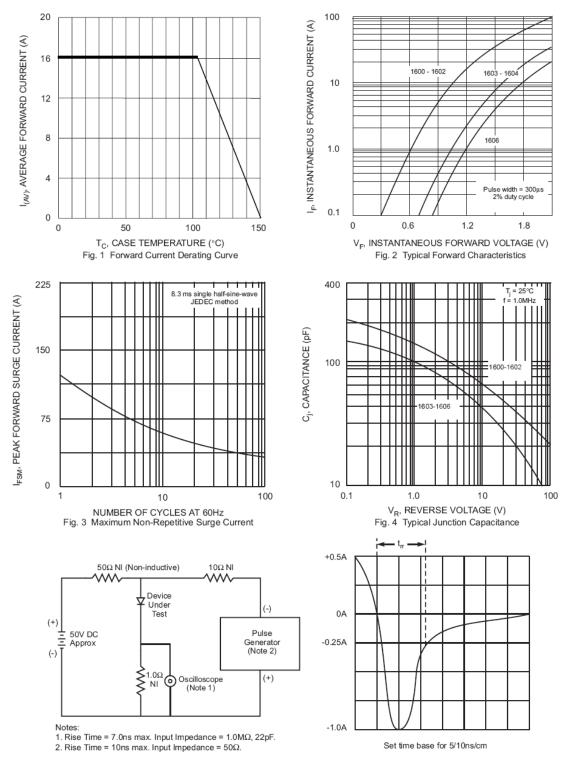


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

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Technical Data Data Sheet N0329, Rev. - **Green Products**

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