

Green Products

MURB1560CT ULTRAFAST PLASTIC RECTIFIER

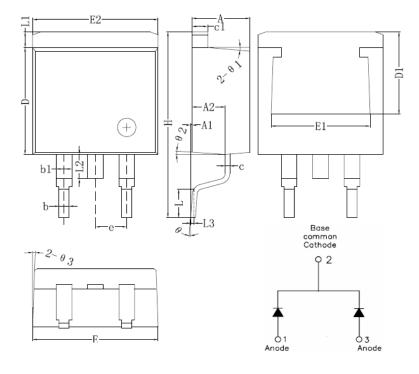
Applications:

- 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	8.85	
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	1.40	
L2			2.20	
L3		0.25BSC		
е	0	-	8°	
e1		5°		
e2		4°		
e3		4°		

 $D^2 PAK$

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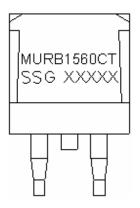
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Marking Diagram:



Where XXXXX is YYWWL

MUR = Device Type B = Package type

15 = Forward Current (15A) 60 = Reverse Voltage (600V)

CT = Configuration

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

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping	
MURB1560CT	D ² PAK	800pcs/ reel	
	(Pb-Free)	ooopes/ reer	

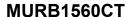
For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.

Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Peak Inverse Voltage	V_{RWM}	-	600	V
Max. Average Forward	I _{F (AV)}	50% duty cycle @Tc=100°C, rectangular wave form	15	Α
Max. Peak One Cycle Non- Repetitive Surge Current (Per leg)	I _{FSM}	8.3ms, Half Sine pulse	110	А

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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop*	V_{F1}	@ 7.5A, Pulse, T _J = 25°C	1.7	٧
(per leg)	V_{F2}	@ 7.5A, Pulse, T _J = 100°C	1.5	V
	I _{R1}	@V _R = rated V _R	5	μA
Max. Reverse Current*		$T_J = 25^{\circ}C$		
	I_{R2}	$@V_R = 0.8 V_R$	50	μΑ
		T _J = 100°C		
Max. Reverse Recovery Time	t _{rr}	I_F =500mA, I_R =1A,and I_m =250mA	50	ns

 $^{^*}$ Pulse width < 300 μ s, duty cycle < 2%

Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Max. Junction Temperature	T_J	-	-55 to +150	°C
Max. Storage Temperature	T _{stg}	-	-55 to +150	°C
Maximum Thermal Resistance Junction to Case	$R_{\theta JC}$	DC operation	2.0	°C/W
Approximate Weight	wt	-	1.85	g
Case Style		D ² PAK		

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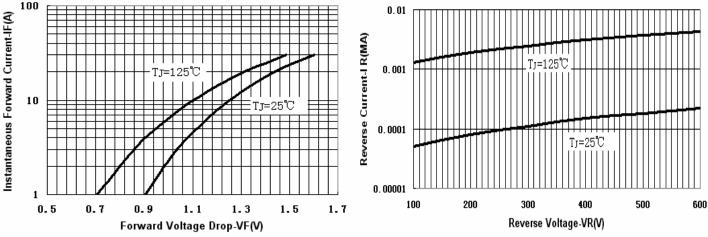


Fig.1-Typical Forward Voltage Drop Characteristics

Fig.2-Typical Values of Reverse Current Vs. Reverse Voltage

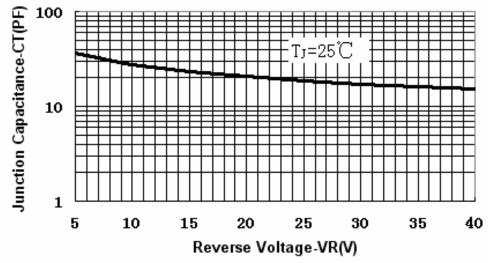


Fig.3-Typical Junction Capacitance Vs.Reverse Voltage

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Technical Data Data Sheet N0328, Rev. - **Green Products**

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