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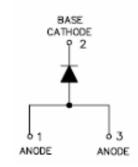
SDURD1560 ULTRAFAST PLASTIC RECTIFIER

Applications:

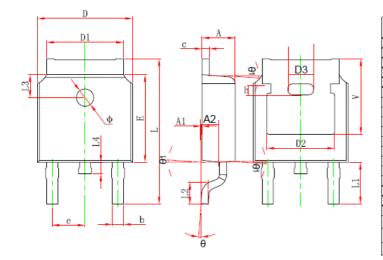
- Antiparallel diode for high frequency switching devices
- Anti saturation diode
- Snubber diode
- Free wheeling diode in converters and motor control circuits
- Rectifiers in switch mode power supplies (SMPS)
- · Inductive heating and melting
- Uninterruptible power supplies (UPS)
- Ultrasonic cleaners and welders

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 /Inches



Symbol	Dimensions in Millimeters		Dimensions in Inches		
	Min.	Max.	Min.	Max.	
Α	2.200	2.380	0.087	0.094	
A10.000	0.000	0.100	0.000	0.004	
b	0.710	0.810	0.028	0.032	
С	0.460	0.560	0.018	0.022	
D	6.500	6.700	0.256	0.264	
D1	5.130	5.460	0.202	0.215	
D2	4.830	REF.	0.190	0.190 REF.	
E	6.000	6.200	0.236	0.244	
e	2.186	2.386	0.086	0.094	
L	9.800	10.400	0.386	0.409	
L1	2.900	REF.	0.114 REF.		
L2	1.400	1.700	0.055	0.067	
L3	1.600	1.600 REF. 0.063 REF.		REF.	
L4	0.600	1.000	0.024	0.039	
Φ	1.100	1.300	0.043	0.051	
θ	0°	8°	0°	8°	
A2	0.910	1.110	0.036	0.044	
V	5.350 REF.		0.211 REF.		
D3	1.778REF.		0.070REF.		
h	0.762REF.		0.030REF.		
0 1	7° 7°		•		

DPAK

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Marking Diagram:



Where XXXXX is YYWWL

SDUR = Device Type D = Package type

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

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

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping
SDURD1560	DPAK (Pb-Free)	2500pcs / reel

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℃, rectangular wave form	15	Α
Max. Peak One Cycle Non- Repetitive Surge Current (Per leg)	I _{FSM}	8.3ms, Half Sine pulse	160	А

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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop*	V_{F1}	@ 15A, Pulse, T _J = 25°C	1.7	V
	V_{F2}	@ 15A, Pulse, T _J = 125°C	1.5	V
Max. Reverse Current*	I _{R1}	$@V_R = \text{rated } V_R$ $T_J = 25^{\circ}C$	10	μA
	I _{R2}	$@V_R = \text{rated } V_R$ $T_J = 125^{\circ}C$	1000	μA
Max. Reverse Recovery Time	t _{rr}	I_F =500mA, I_R =1A,and I_m =250mA	50	ns

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

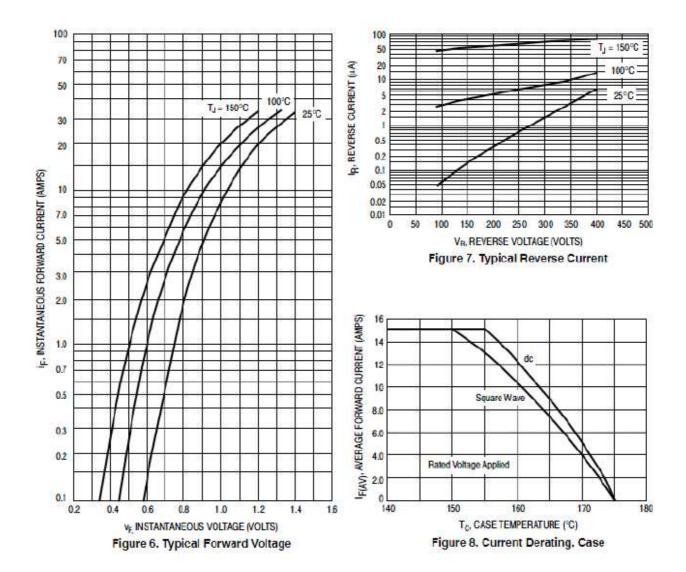
Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Max. Junction Temperature	TJ	-	-55 to +150	°C
Max. Storage Temperature	T _{stg}	-	-55 to +150	°C
Maximum Thermal Resistance Junction to Case	$R_{\theta JC}$	DC operation	5.0	°C/W
Approximate Weight	wt	-	0.39	g
Case Style		DPAK		

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