

Technical Data Data Sheet N1569, Rev. -

Green Products

SDURD2060 ULTRAFAST PLASTIC RECTIFIER

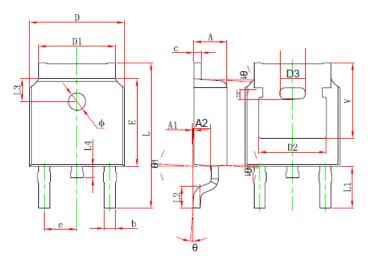
Applications:

- 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:

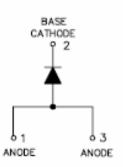
- Ultra-Fast Switching
- High Current Capability
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Mechanical Dimensions: In mm /Inches



Symbol	Dimensions In Millimeters		Dimensions In Inches		
Symbol	Min.	Max.	Min.	Max.	
A	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	REF.	
E	6.000	6.200	0.236	0.244	
е	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	REF.	0.063	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	1.778	REF.	0.070	REF.	
h	0.762REF.		0.030	0.070REF. 0.030REF.	
θ1	7'		7	•	

DPAK





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Marking Diagram:



Where XXXXX is YYWWL

SDUR	= Device Type
D	= Package type
20	= Forward Current (20A)
60	= Reverse Voltage (600V)
SSG	= SSG
ΥY	= Year
WW	= Week
L	= Lot Number

Cautions:	Molding resin
	Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping
	DPAK	2500000 (rool
SDURD2060	(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
Average Forward Current	I _{F (AV)}	50% duty cycle @Tc=105°C, rectangular wave form	20	A
Peak One Cycle Non- Repetitive Surge Current (Per leg)	I _{FSM}	8.3ms, Half Sine pulse	110	A



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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Forward Voltage Drop*	V _F	@20A, Pulse, T _J = 25°C	2.0	V
Reverse Current*	I _R	$@V_R = rated V_R$ T _J = 25°C	5	μA
Reverse Recovery Time	t _{rr}	I_F =500mA, I_R =1A,and I_{rm} =250mA	50	ns

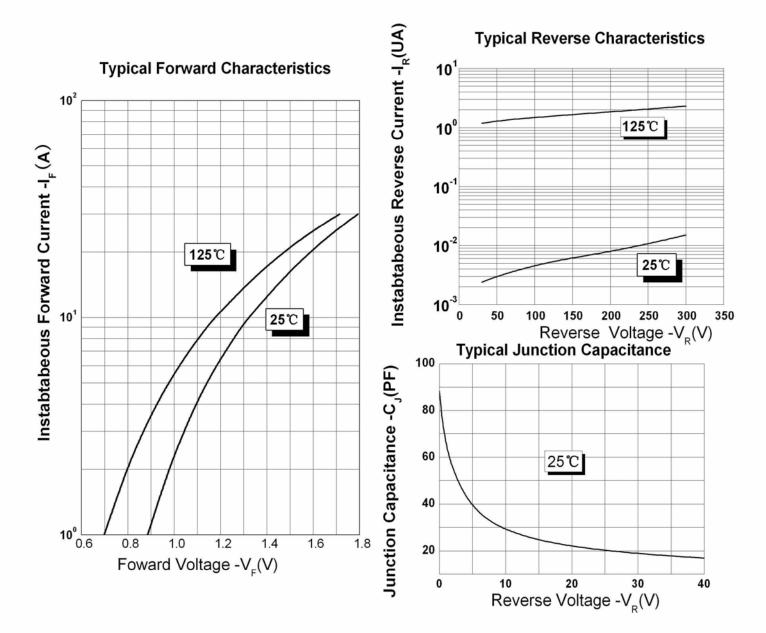
* Pulse width < 300 μ s, duty cycle < 2%

Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	TJ	-	-55 to +150	°C
Storage Temperature	T _{stg}	-	-55 to +150	°C
Maximum Thermal	R _{0JC}	DC operation	5.0	°C/W
Resistance Junction to Case				
Approximate Weight	wt	-	0.39	g
Case Style		DPAK		



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