

Green Products

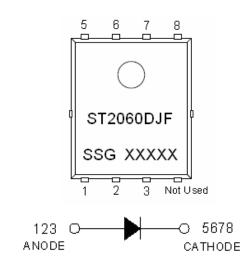
ST2060DJF POWER SCHOTTKY RECTIFIER

Applications:

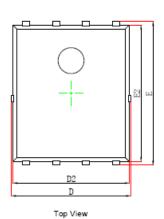
- Switching power supply
- Converters
- Free-Wheeling diodes
- Reverse battery protection

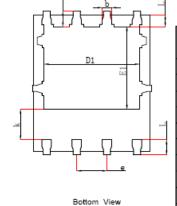
Features:

- Ultralow forward voltage drop
- Very small conduction losses
- Negligible switching losses
- Extremely fast switching
- Low thermal resistance
- Trench MOS Schottky technology
- Avalanche capability specified
- Thin package: 1 mm
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

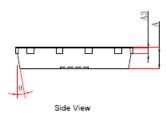


Mechanical Dimensions: In mm/Inches





Symbol	Dimensions I	n Millimeters	Dimensions In Inches		
	Min.	Max.	Min.	Max.	
Α	0.900	1.000	0.035	0.039	
A3	0.254	REF.	0.010	REF.	
D	4.944	5.096	0.195	0.201	
Е	5.974	6.126	0.235	0.241	
D1	3.910	4.110	0.154	0.162	
E1	3.375	3.575	0.133	0.141	
D2	4.824	4.976	0.190	0.196	
E2	5.674	5.826	0.223	0.229	
k	1.190	1.390	0.047	0.055	
b	0.350	0.450	0.014	0.018	
е	1.270TYP.		0.050	TYP.	
L	0.559	0.711	0.022	0.028	
L1	0.424	0.576	0.017	0.023	
Η	0.574	0.726	0.023	0.029	
θ	10°	12°	10°	12°	



PDFNWB5×6-8L

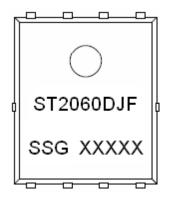
- China Germany Korea Singapore United States
 - http://www.smc-diodes.com sales@ smc-diodes.com •





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Marking Diagram:



Cautions: Molding resin

Epoxy resin UL: 94V-0

Where XXXXX is YYWWL

ST = Device Type

20 = Forward Current (20A) 60 = Reverse Voltage (60V)

DJF = Package type

 SSG
 = SSG

 YY
 = Year

 WW
 = Week

 L
 = Lot Number

Ordering Information:

Device	Package	Shipping
ST2060DJF	PDFNWB5×6-8L	3000 pcs / reel
312000031	(Pb-Free)	3000 pcs / 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 Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$egin{array}{c} V_{RRM} \ V_{RWM} \ V_{R} \end{array}$	-	60	V
Average Forward Current	I _{F(AV)}	50% duty cycle @T _C = 80°C, rectangular wave form	20	Α
Peak One Cycle Non-Repetitive Surge Current	I _{FSM}	8.3 ms, half Sine pulse	150	А

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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Forward Voltage Drop*	V_{F1}	@ 20A, Pulse, T _J = 25 °C	0.75	V
	V_{F2}	@ 20A, Pulse, T _J = 125 °C	0.70	V
Reverse Current *	I _{R1}	@V _R = rated V _R	1	mA
		T _J = 25 °C		
	I _{R2}	$@V_R = rated V_R$	40	mA
		T _J = 125 °C		

^{*} Pulse Width < 300µs, Duty Cycle <2%

Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	TJ	-	-55 to + 150	Ô
Storage Temperature	T _{stg}	-	-55 to + 150	°C
Typical Thermal Resistance Junction to Case	$R_{ heta JC}$	DC operation	2.6	°C/W
Approximate Weight	wt	-	0.095	g
Case Style		PDFNWB5×6-8L		

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