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20CJQ060 SCHOTTKY RECTIFIER

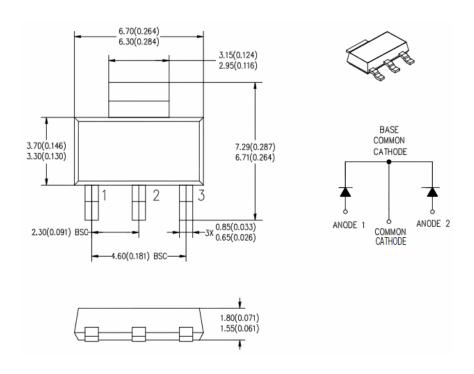
Applications:

- Switching power supply
- Redundant power subsystems
- Converters
- · Free-Wheeling diodes
- Reverse battery protection

Features:

- 150℃ T_J operation
- Center tap configuration
- Low forward voltage drop
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- High frequency operation
- . Guard ring for enhanced ruggedness and long term reliability
- 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



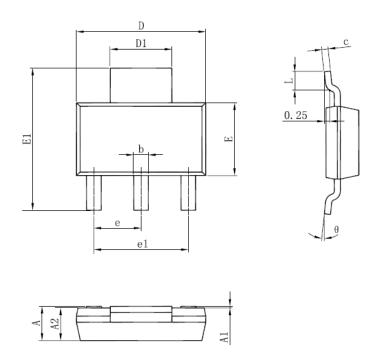
OPTION 1

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Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min	Max	Min	Max	
Α	1.520	1.800	0.060	0.071	
A1	0.000	0.100	0.000	0.004	
A2	1.500	1.700	0.059	0.067	
b	0.660	0.820	0.026	0.032	
С	0.250	0.350	0.010	0.014	
D	6.200	6.400	0.244	0.252	
D1	2.900	3.100	0.114	0.122	
E	3.300	3.700	0.130	0.146	
E1	6.830	7.070	0.269	0.278	
е	2.300(BSC)		0.091(BSC)		
e1	4.500	4.700	0.177	0.185	
L	0.900	1.150	0.035	0.045	
θ	0°	10°	0°	10°	

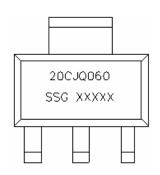
OPTION 2(CJ)

SOT-223



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Marking Diagram:



Where XXXXX is YYWWL

20CJQ060 = Part Name SSG = SSG YY = Year WW = Week L = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping
20CJQ060	SOT-223	3000pcs / reel
2003Q000	(Pb-Free)	Socopes / Teel

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	VRWM	-	60	V
Max. Average Forward *(per device)	I _{F(AV)}	50% duty cycle @T _C = 127°C, rectangular wave form	2	А
Max. Peak One Cycle Non- Repetitive Surge Current	I _{FSM}	8.3 ms, half Sine pulse	26	А

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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop (per leg) *	V_{F1}	@ 1A, Pulse, T _J = 25 °C	0.70	V
	V_{F2}	@ 1A, Pulse, T _J = 125 °C	0.65	V
Max. Reverse Current (per leg) *	I _{R1}	$@V_R = \text{rated } V_R$ $T_J = 25 ^{\circ}C$	0.1	mA
	I _{R2}	$@V_R = \text{rated } V_R$ $T_J = 125 ^{\circ}\text{C}$	5.0	mA
Max. Junction Capacitance (per leg)	Ст	$@V_R = 5V, T_C = 25 °C f_{SIG} = 1MHz$	60	pF
Max. Voltage Rate of Change	dv/dt	-	10,000	V/µs

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

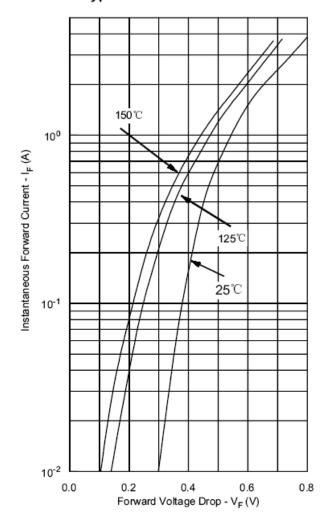
Thermal-Mechanical Specifications:

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	$R_{ heta JC}$	DC operation	15	°C/W
Maximum Thermal Resistance, Case to Heat Sink	$R_{ heta JA}$	DC operation	65	°C/W
Approximate Weight	wt	-	0.13	g
Case Style		SOT-223		

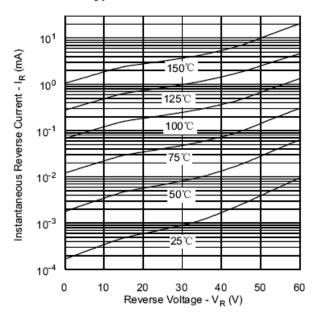


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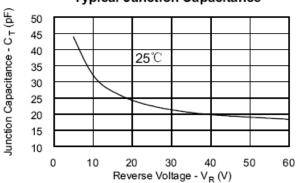
Typical Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance



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20CJQ060

Technical Data
Data Sheet N0672, Rev. -

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