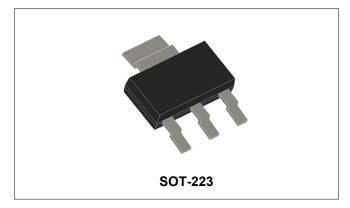


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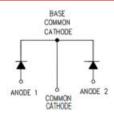
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RoHS 🗭

20CJQ060 SCHOTTKY RECTIFIER



Circuit Diagram



Features

- 150 °C T_J operation
- 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
- "-A" is an AEC-Q101 qualified device
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Applications

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

Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	-	60	V
Average Rectified Forward Current	IF (AV)	50% duty cycle @Tc=127°C, rectangular wave form	1(Per Leg) 2(Per Device)	A
Peak One Cycle Non-Repetitive Surge Current(Per Leg)	IFSM	8.3ms, Half Sine pulse, T _C = 25 °C	26	А

Electrical Characteristics:

Characteristics	Symbol	Condition	Тур.	Max.	Units
Forward Voltage Drop (Per Leg)*	V _{F1}	@ 1A, Pulse, TJ = 25 °C @ 2A, Pulse, TJ = 25 °C	0.59 0.75	0.70 -	V
	V _{F2}	@ 1A, Pulse, TJ = 125 °C @ 2A, Pulse, TJ = 125 °C	0.54 0.65	0.65 -	V
Reverse Current (Per Leg)*	I _{R1}	$@V_R = rated V_R$ T _J = 25 °C	0.002	0.1	mA
	I _{R2}	$@V_R = rated V_R$ T _J = 125 °C	0.4	5	mA
Junction Capacitance(Per Leg)	Ст	@V _R = 5V, T _C = 25 °C f _{SIG} = 1MHz	40	60	pF

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

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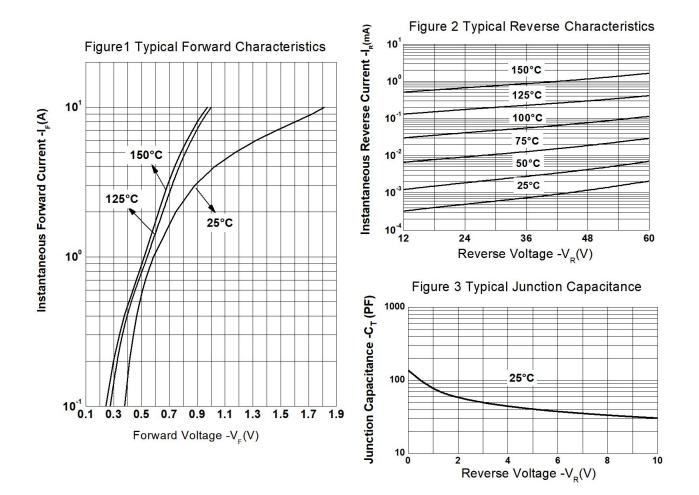
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Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	TJ	-	-55 to +150	°C
Storage Temperature	T _{stg}	-	-55 to +150	°C
Typical Thermal Resistance Junction to Lead	R _{0JL}	DC operation	25	°C/W
Typical Thermal Resistance Junction to Ambient	R _{0JA}	DC operation	65	°C/W
Approximate Weight	wt	-	0.13	g
Case Style	SOT-223			

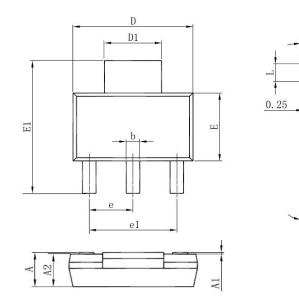
Ratings and Characteristics Curves





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Mechanical Dimensions SOT-223



OVMDO	Millimeters		Inches	
SYMBOL	MIN.	MAX.	MIN.	MAX.
А	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°

L

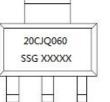
Ordering Information

Device	Package	Shipping
20CJQ060	SOT-223 (Pb-Free)	3000pcs / reel
20CJQ060TR	SOT-223 (Pb-Free)	3000pcs / reel

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

Carrier Tape Specification SOT-223

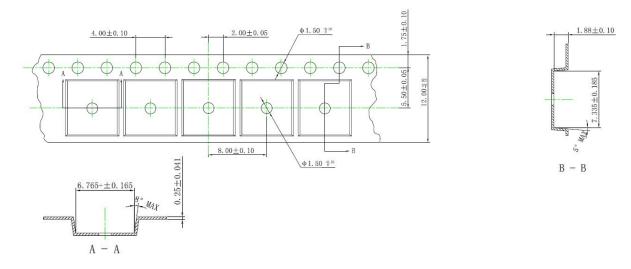
Marking Diagram



Where	XXXXX	ie	YYWWL
vvnere	~~~~	15	

20CJQ060	= Part Name
SSG	= SSG
YY	= Year
WW	= Week

= Lot Number



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