

Features

- Halogen Free. "Green" Device (Note 1)
- Low Power Loss, High Efficiency
- High Surge Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant (Note 2)("P" Suffix Designates RoHS Compliant. See Ordering Information)
- Fully Automotive Qualified to AEC-Q101

1 Amp Surface Mount Schottky Rectifier 100 Volts

Maximum Ratings @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V _{RRM}		
Working Peak Reverse Voltage	V _{RWM}	100	V
DC Blocking Voltage	V _R		
RMS Reverse Voltage	V _{RMS}	70	V
Average Rectified Forward Current @ T _L =150°C	I _{F(AV)}	1	Α
Non-Repetitive Peak Surge Current @8.3ms Half Sine Wave	I _{FSM}	30	Α
Current Squared Time @ 1ms≤t≤8.3ms	l ² t	3.735	A ² s

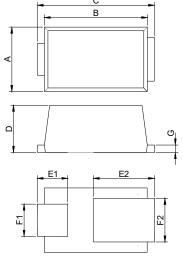
Internal Structure

Pin	Description	Simplified Outline		Graphic Symbol
1	Cathode		M 10 ,	
2	Anode	YWW = Date Code		1 ∘

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

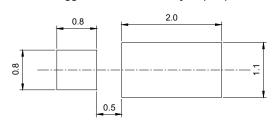
2. High temperature solder exemption applied, see EU directive annex 7a.

SOD-323HE-B



DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.047	0.055	1.20	1.40		
В	0.083	0.091	2.10	2.30		
С	0.091	0.106	2.30	2.70		
D	0.035	0.039	0.90	1.00		
E1	0.022	0.030	0.55	0.75		
E2	0.043	0.059	1.10	1.50		
F1	0.022	0.030	0.55	0.75		
F2	0.031	0.039	0.78	0.98		
G	0.005	0.011	0.12	0.27		

Suggested Solder Pad Layout(mm)





Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
T _J	Operating Junction Temperature Range		-55		175	°C
T _{stg}	Storage Temperature Range		-55		175	°C
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Note 1		130		°C/W
Rth _(J-L)	Thermal Resistance from Junction to Lead	Note 1		30		°C/W

Note

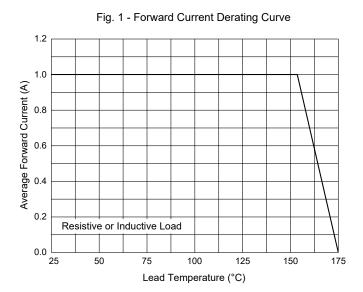
Electrical Characteristics @ 25°C Unless Otherwise Specified

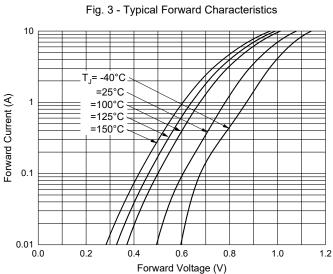
Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage	V _F	I _F =1A;T _J =25°C I _F =1A;T _J =125°C		0.78	0.83 0.68	V
Reverse Current	I _R	at Rated V _R ;T _J =25°C at Rated V _R ;T _J =125°C			1 500	μΑ
Junction Capacitance	CJ	V _R =4V;f=1MHz;T _J =25°C		30		pF

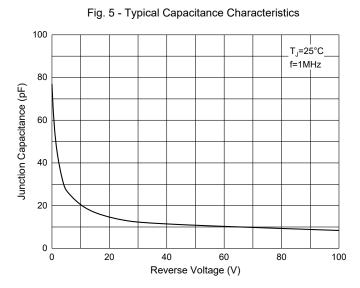
^{1.}Thermal resistance between junction and ambient and between junction and lead mounted on P.C.B with 5mm*5mm copper pad areas.Rth_(J-L) is measured at the terminal of cathode band.



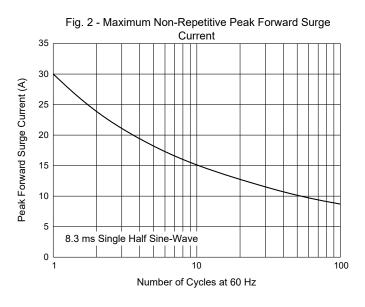
Curve Characteristics

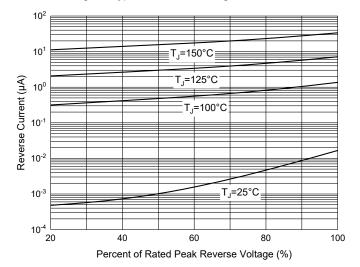






3 - Typical Forward Characteristics Fig. 4 - Typical Reverse Leakage Characteristics







Ordering Information

Device	Packing		
SMD110PBQ-TP	Tape&Reel:2.5Kpcs/Reel		

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Rev.4-1-01192024 4/4 MCCSEMI.COM