

Schottky Barrier Rectifier

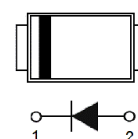
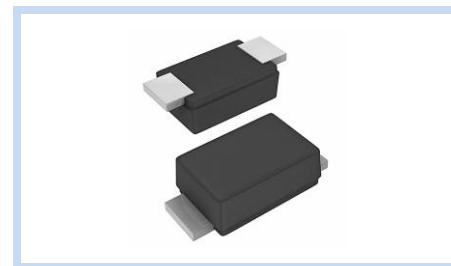
1A 40~200V SOD-323FL

SK1-S323F Series

MERITEK

FEATURES

- Low Power Loss, High Efficiency
- High Forward Surge Capability
- Guard ring for Overvoltage Protection
- Application: Low-Voltage, High-Frequency Inverters, Free Wheeling, and Polarity Protection



ELECTRICAL CHARACTERISTICS

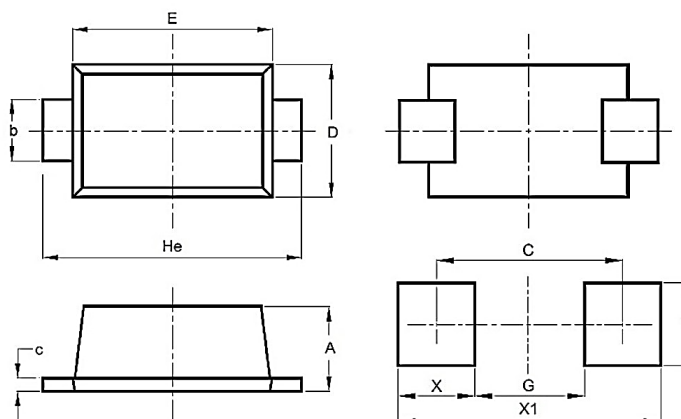
Parameter		Symbol	SK14 S323F	SK16 S323F	SK110 S323F	SK115 S323F	SK120 S323F	Unit
Maximum Recurrent Peak Reverse Voltage		V _{RRM}	40	60	100	150	200	V
Maximum RMS Voltage		V _{RMS}	28	42	70	105	140	V
Maximum DC Blocking Voltage		V _{DC}	40	60	100	150	200	V
Maximum Forward Voltage at 1.0A		V _F	0.55	0.70	0.85	0.90	0.90	V
Maximum Average Forward Rectified Current		I _(AV)	1.0					A
Peak Forward Surge Current, 1 Cycle, T _J =25°C	60Hz half-sine-wave	I _{FSM}	30					A
	1ms square wave		60					
Maximum Reverse Current at Rated DC Blocking Voltage	T _J =25°C	I _R	0.5					mA
	T _J =125°C		30					
Typical Thermal Resistance		R _{θJA}	90					°C/W
Diode Junction Capacitance	f=1MHz, V _R =4V	C _J	43					pF
Operating Junction Temperature Range		T _J	-55 to +125		-55 to +175			°C
Storage Temperature Range		T _{STG}	-55 to +175					°C

Note:

1. Ratings at 25°C ambient temperature unless otherwise specified.
2. Single phase, sin wave, 60Hz, resistive load.

DIMENSIONS

Item	Min (mm)	Max (mm)
A	0.80	1.20
b	0.90	1.15
c	0.05	0.25
D	1.05	1.45
E	1.60	1.80
He	2.30	2.70
C	2.30	
G	1.30	
X	1.00	
X1	3.30	
Y	1.50	



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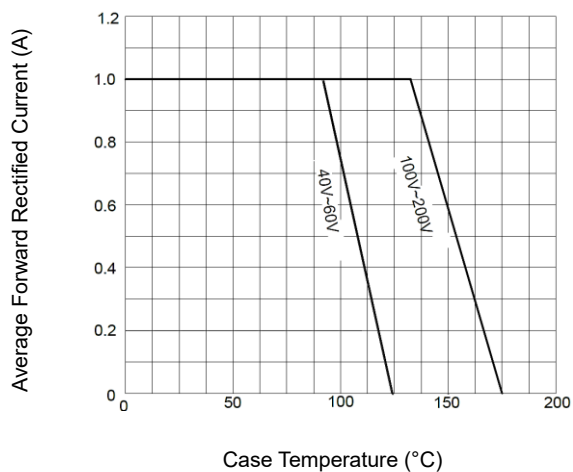
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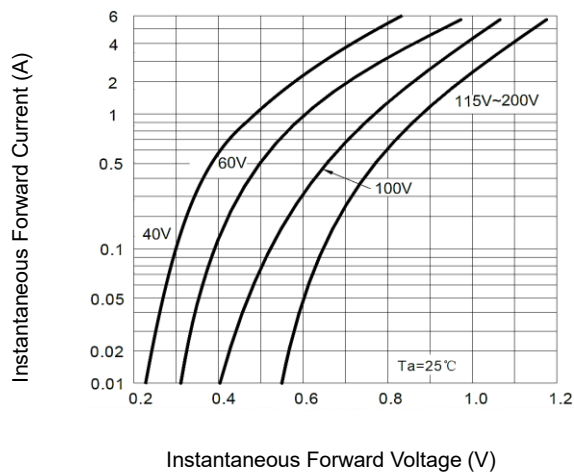
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CHARACTERISTIC CURVES

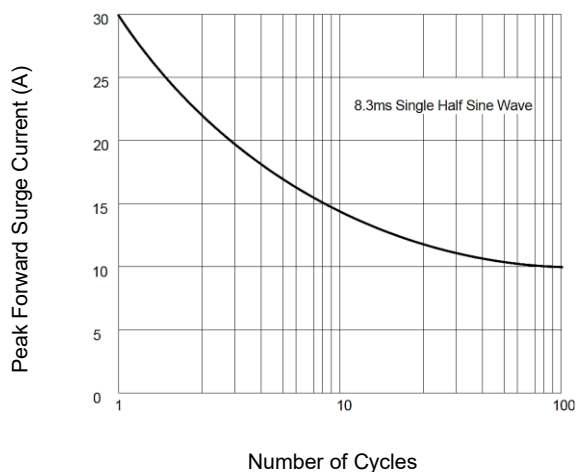
Typical Forward Current Derating Curve



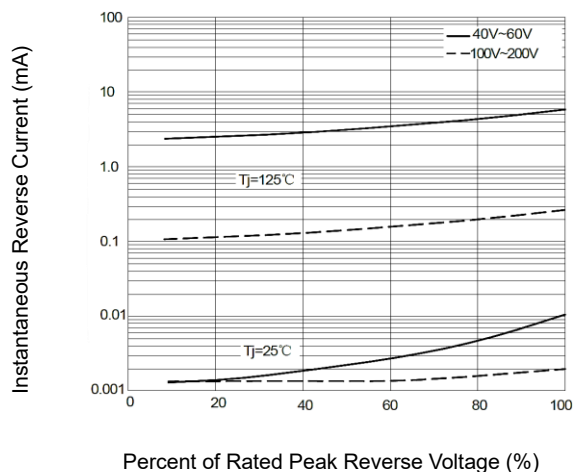
Typical Instantaneous Forward Characteristics



Maximum Non-Repetitive Forward Surge Current



Typical Reverse Characteristics



*Specifications subject to change without notice.