Elektronische Bauelemente

SCS140P

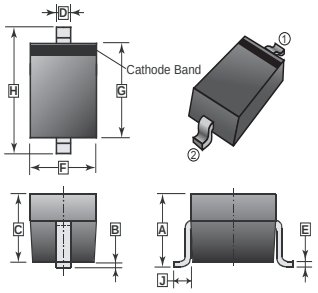
1A , 40V
Schottky Barrier Rectifiers

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- High Current Capability
- Extremely Low Thermal Resistance
- For Surface Mount Application
- Higher Temp Soldering : 250°C for 10 Seconds at Terminals
- Low Forward Voltage

SOD-123



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	0.95	1.35	F	1.40	1.80
B	0.10 REF.		G	2.55	2.85
C	1.05	1.15	H	3.55	3.85
D	0.30	0.78	J	0.50 REF.	
E	0.08	0.25			

MECHANICAL DATA

- Case: Molded Plastic
- Epoxy: UL 94V-0 Rate Flame Retardant
- Lead: Solderable per MIL-STD-202, method 208 guaranteed
- Polarity: Color Band Denotes Cathode End
- Mounting Position: Any

MARKING CODE

BM

PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-123	3K	7 inch

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, de-rate current by 20%.)

Parameter		Symbol	Ratings	Unit
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	40	V
Working Peak Reverse Voltage		V_{RWM}	40	V
Maximum DC Blocking Voltage		V_R	40	V
Average Forward Current @T_J=25°C		$I_{F(AV)}$	1	A
Peak Forward Current @ 8.3 ms Half Sine		I_{FSM}	10	A
Maximum Instantaneous Forward Voltage	I_{FM}=1 A, T_A=25°C	V_F	0.52	V
	I_{FM}=1A, T_A=125°C		0.45	V
Maximum DC Reverse Current At Rated DC Blocking Voltage	T_J=25°C	I_R	0.1	mA
	T_J=125°C		5	mA
Typical Junction Capacitance [1]		C_J	160	pF
Typical Thermal Resistance [2]		$R_{\theta JA}$	310	°C / W
Operating Temperature Range		T_J	-40~125	°C
Storage temperature		T_{STG}	-50~150	°C

Notes:
1. Measured at 1MHZ and applied reverse of 0V DC.
2. FR-4 PCB, 2 oz. 0.7mm ×1.2mm copper pad.

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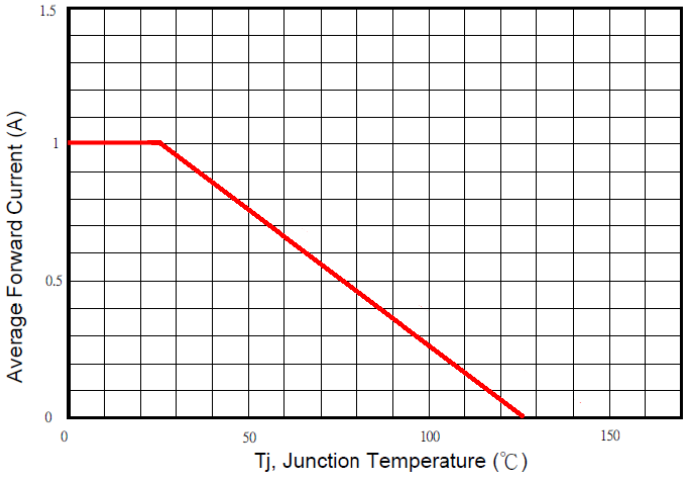
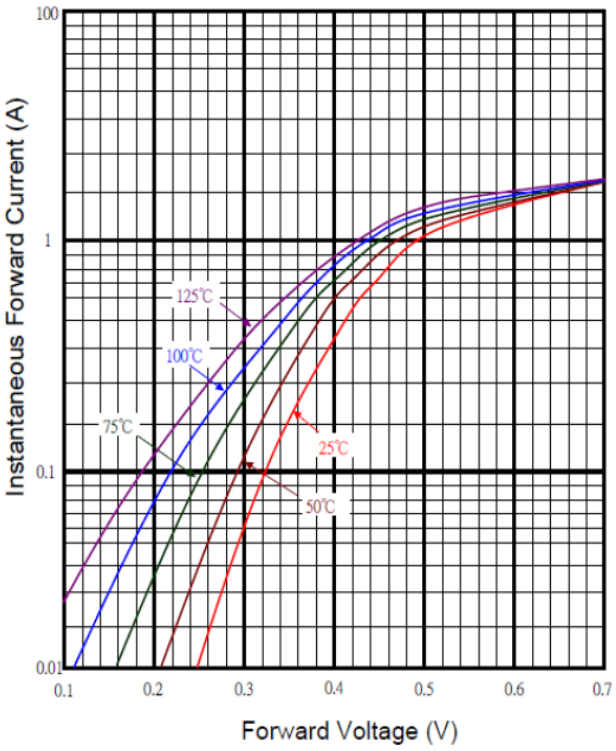
RATINGS AND CHARACTERISTIC CURVES

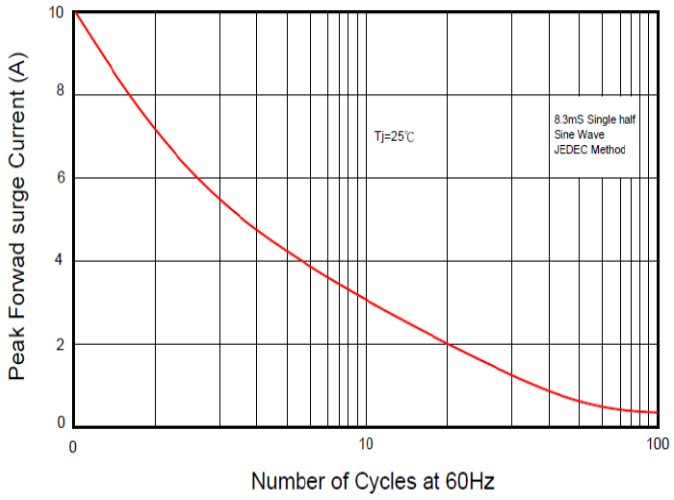
Typical Forward Current Derating Curve



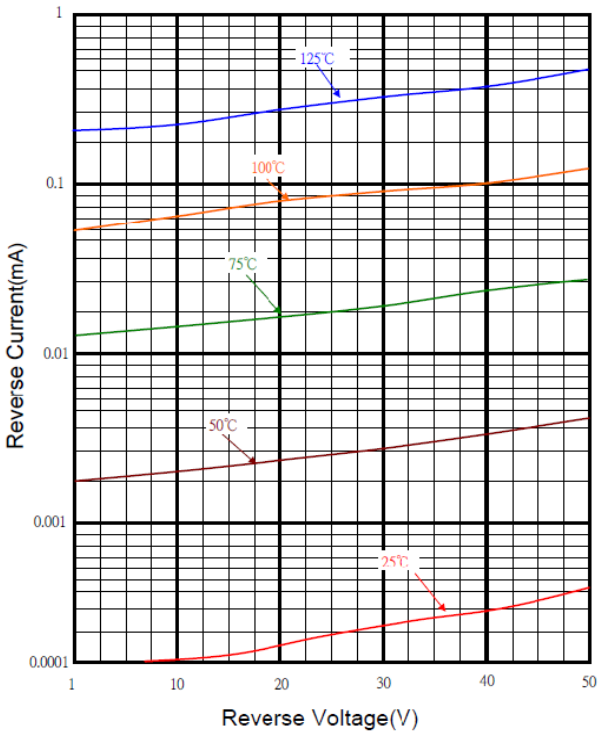
Typical Forward Characteristic



Maximum Non- Repetitive Forward Surge Current



Typical Reverse Characteristic



Typical Junction Capacitance