Schottky Barrier Rectifier

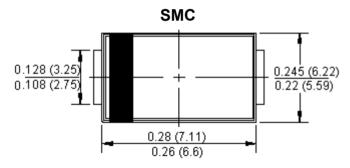


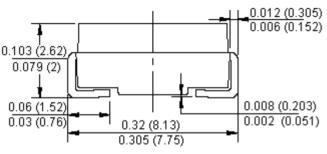


Features:

- Surface mount.
- · Metal-semiconductor junction with guard ring.
- · Epitaxial construction.
- Low forward voltage drop.
- High current capability.
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications.

Reverse Voltage - 40 V Forward Current - 5 Amperes





Dimensions: Inches (Millimetres)

Mechanical Data

Case : Moulded plastic.

Polarity: Colour band denotes cathode.

Weight : 0.007 oz, 0.21 g.

Schottky Barrier Rectifier



Maximum Ratings and Electrical Characteristics

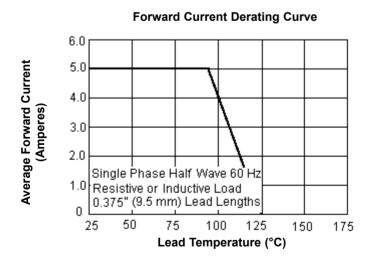
Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

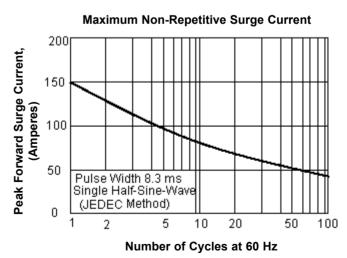
Characteristics	Symbol	SS54	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	40	V
Maximum RMS Voltage	V _{RMS}	28	
Maximum DC Blocking Voltage	V _{DC}	40	
Maximum Average Forward Rectified Current 0.375" (9.5 mm) Lead Lengths at $T_L = 95$ °C	I _(AV)	5	A
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Super Imposed on Rated Load (JEDEC Method)	I _{FSM}	150	
Maximum Forward Voltage at 5 A dc	V _F	0.55	V
Maximum DC Reverse Current at $T_J = 25^{\circ}$ C Rated DC Blocking Voltage at $T_J = 100^{\circ}$ C	I _R	1 50	mA
Typical Junction Capacitance (Note 1)	CJ	500	pF
Typical Thermal Resistance (Note 2)	$R_{ heta JA}$	15	°C/W
Operating Temperature Range	T _J	-55 to +125	°C
Storage Temperature Range	T _{STG}	-55 to +150	

Notes: 1. Measured at 1 MHz and applied reverse voltage of 4 V dc.

2. Thermal resistance junction to ambient.

Rating and Characteristics Curves



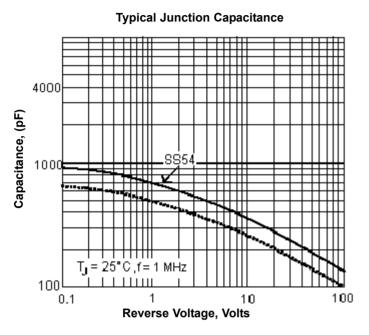


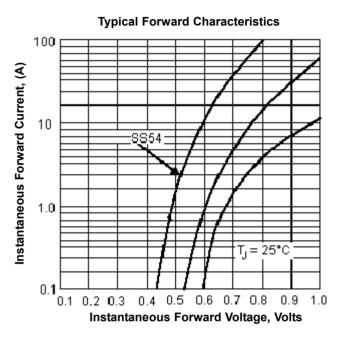


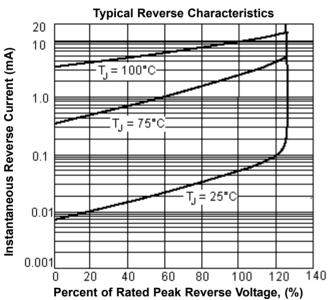
Schottky Barrier Rectifier



Rating and Characteristics Curves







Important Notice: This data sheet and its contents (the "Information") belong to the members of the Premier Farnell group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp is the registered trademark of the Group. © Premier Farnell plc 2011.

