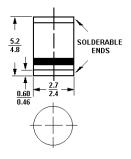
SM5817 THRU SM5819

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

Reverse Voltage - 20 to 40 V Forward Current - 1 A

Features

- Fast switching
- · Glass passivated device
- Ideal for surface mounted applications
- · Low leakage current
- Metallurgically bonded construction



Plastic case MELF (DO-213AB)
Dimensions in millimeters

Mechanical data

• Case: MELF (DO-213AB) molded plastic

• Mounting position: Any

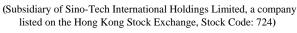
Absolute Maximum Ratings and Characteristics

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

Parameter		Symbols	SM5817	SM5818	SM5819	Units
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	20	30	40	V
Maximum RMS Voltage		V _{RMS}	14	21	28	V
Maximum DC Blocking Voltage		V _{DC}	20	30	40	V
Maximum Average Forward Rectified Current at T _A = 90 °C			1			Α
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC method)		I _{FSM}	25			Α
Maximum Instantaneous Forward Voltage at 1 A DC		V _F	0.45	0.55	0.6	V
Maximum Instantaneous Forward Voltage at 3.1 A DC		V _F	0.75	0.875	0.9	V
Maximum Average Reverse Current at Rated DC Blocking Voltage	at $T_A = 25$ °C at $T_A = 100$ °C	I _R	1 10		mA	
Typical Thermal Resistance 1)		$R_{\theta JA}$	80			°C/W
Typical Junction Capacitance 2)		Сл	110			pF
Operating and Storage Temperature Range		T_{j}, T_{stg}	- 65 to + 125			°C

¹⁾ Thermal Resistance (Junction to Ambient): Vertical PC Board Mounting, 0.5" (12.7 mm) Lead Length.















Dated : 23/12/2008

 $^{^{\}rm 2)}$ Measured at 1 MHz and applied reverse voltage of 4 volts.