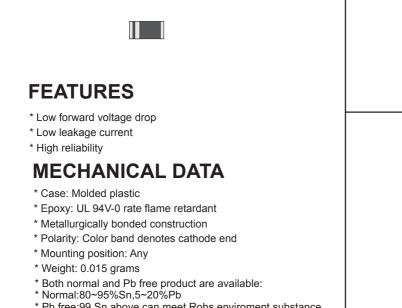
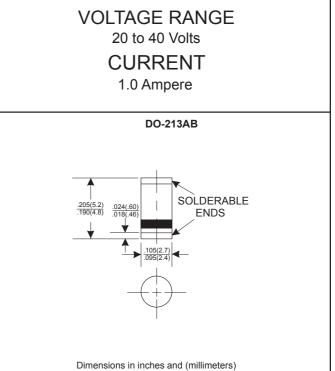
SM5817 THRU SM5819

1.0 AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS







MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

TYPE NUMBER	SM5817	SM5818	SM5819	UNITS
Maximum Recurrent Peak Reverse Voltage	20	30	40	V
Maximum RMS Voltage	14	21	28	V
Maximum DC Blocking Voltage	20	30	40	V
Maximum Average Forward Rectified Current			•	
See Fig. 2		1.0		A
Peak Forward Surge Current, 8.3 ms single half sine-wave	9			
superimposed on rated load (JEDEC method)		25		A
Maximum Instantaneous Forward Voltage at 1.0A	0.45	0.55	0.60	V
Maximum DC Reverse Current Ta=25 °C		500		
at Rated DC Blocking Voltage Ta=100°C		10		mA
Typical Junction Capacitance (Note1)		110		pF
Typical Thermal Resistance RθJA (Note 2)		80		°C/W
Operating Temperature Range TJ		-65-+125		°C
Storage Temperature Range Tstg		-65-+150		

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. Thermal Resistance Junction to Ambient.

