

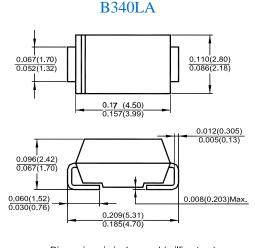
SCHOTTKY DIODES

FEATURES

Plastic package has Underwriters Laboratory Flammability Classification 94V-0 For surface mounted applications Metal silicon junction, majority carrier conduction Low power loss, high efficiency. High current capability, low forward voltage drop

MECHANICAL DATA

SMA (DO-214AC) molded plastic body leads solderable per MIL-STD-750, Method 2026 color band denotes cathode end



Dimensions in inches and (millimeters) $DO\mbox{-}214AC\ (SMA)$

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings 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%.

Characteristic		B340LA/B	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	40	V
RMS Reverse Voltage	V _{R(RMS)}	28	V
Average Rectified Output Current (Note 1) $T_L = 90^{\circ}C$	I _O	3.0	А
Non-Repetitive Peak Forward Surge Current, single sine-wave superimposed on rated load, 60Hz	I _{FSM}	70	А
Operating and Storage Temperature Range	T _{j, TSTG}	-40 to +125	°C

Characteristic	Symbol	Min	Тур	Max	Unit	Conditions
Reverse Breakdown Voltage (Note 2)	V _{(BR)R}	40	_	_	_	I _R = 2.0mA
Forward Voltage Drop (Note 2)	V _{FM}		0.310	0.350 0.450	V	I _F = 1.0A I _F = 3.0A
Leakage Current (Note 2)	I _{RM}	_	—	150	uA	V _R = 15V
			_	1.0 2.0	mA	$V_R = 20V$ $V_R = 40V$
Typical Junction Capacitance	Cj	_	180	_	pF	$f = 1MHz, V_R = 4.0VDC$
Typical Thermal Resistance, Junction to Terminal	R _{0JT}	_	25	_	°C/W	Mounted on alumina substrate

Notes: 1. When mounted on alumina substrate, 180° half sine wave.

2. Short duration test pulse used to minimize self-heating effect.





B340LATypical Characteristics

