

SSL345B

Surface Mount Schottky Barrier Rectifier

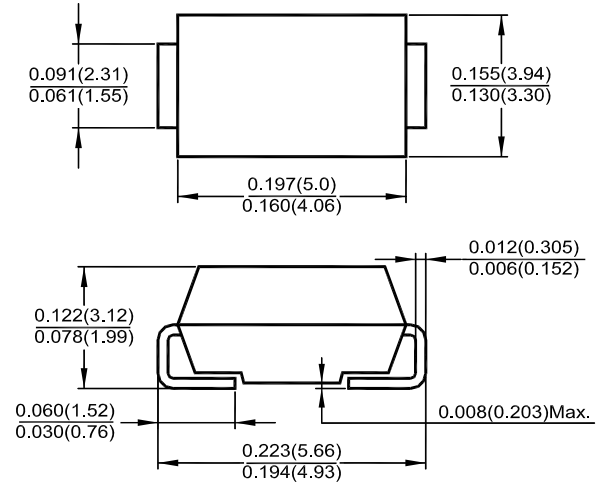
Reverse Voltage - 45 V

Forward Current - 3 A

Features

- High forward surge current capability
- Molded plastic

SMB (DO-214AA)



Dimensions in inches and (millimeters)

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 current derate by 20%.

Parameter	Symbols	Value	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	45	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	3	A
Peak Forward Surge Current 8.3 ms Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	120	A
Maximum Instantaneous Forward Voltage at 3 A	V_F	0.4	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	0.5	mA
$T_a = 25\text{ }^{\circ}\text{C}$ $T_a = 100\text{ }^{\circ}\text{C}$		10	
Typical Thermal Resistance from junction to ambient ¹⁾	$R_{\theta JA}$	55	$^{\circ}\text{C/W}$
Typical Thermal Resistance from junction to lead ¹⁾	$R_{\theta JL}$	17	$^{\circ}\text{C/W}$
Junction Temperature Range	T_j	- 55 to + 125	$^{\circ}\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 150	$^{\circ}\text{C}$

¹⁾ mounted on P.C.B. with 0.6" x 0.6" (16 mm x 16 mm) copper pad areas

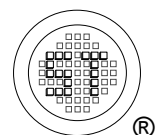


FIG.1: FORWARD CURRENT DERATING CURVE

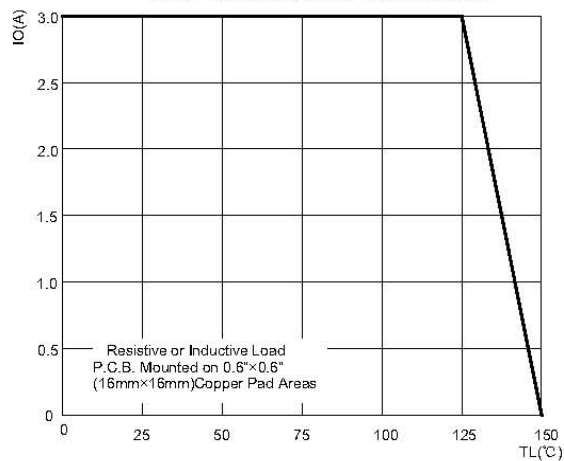


FIG.2: MAXIMUM NON-REPETITIVE FORWARD URGE CURRENT

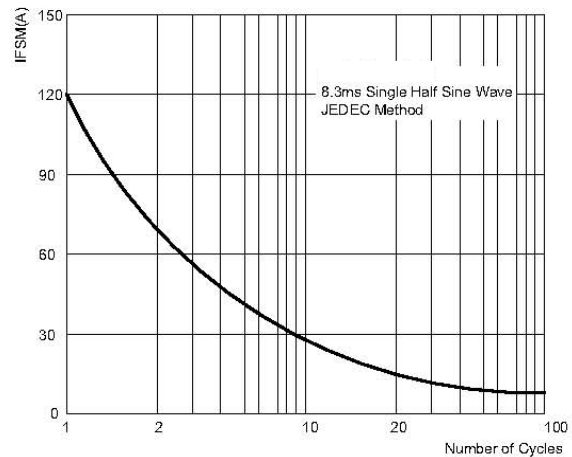


FIG.3: TYPICAL FORWARD CHARACTERISTICS

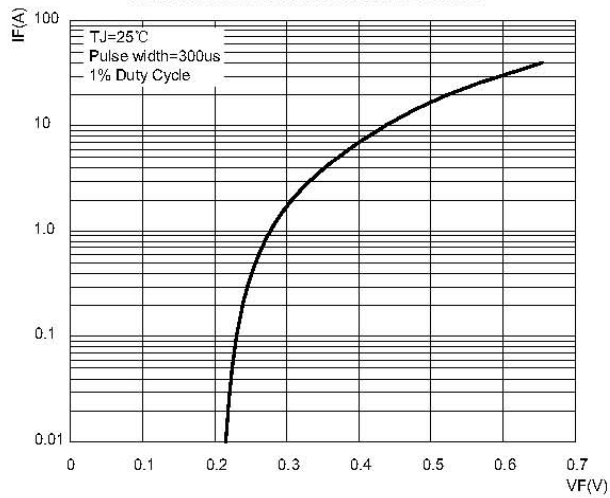


FIG.4: TYPICAL REVERSE CHARACTERISTICS

