
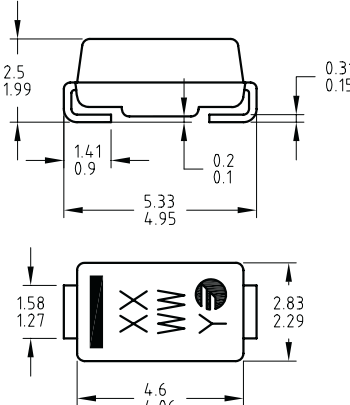


1.0 Amp. Surface Mount Low V_F Schottky Barrier Rectifiers

<div>  RoHS COMPLIANCE </div> <div> CASE: SMA/DO-214AC </div>  <p>XX = Marking code WW = Week code Y = Year code</p> <p>Dimensions in mm.</p>	<div> Voltage 20 V to 40 V </div> <div> Current 1.0 A </div> <ul style="list-style-type: none"> • For surface mounted application • Metal to silicon junction, majority carrier conduction • Low forward voltage drop • Easy pick and place • High surge current capability • Plastic material used carriers Underwriters Laboratory Classification 94V-0 • Epitaxial construction • High temperature soldering: 260 °C / 10 seconds at terminals <div> MECHANICAL DATA Case: Molded plastic Terminals: Pure tin plated, lead free. Polarity: Indicated by cathode band Packaging: 12 mm tape per EIA-STD RS-481. Weight: 0.064 gram </div>
---	---

Maximum Ratings and Electrical Characteristics at 25 °C

		FSSL12	FSSL13	FSSL14
Marking code		1A	1B	1C
V_{RRM}	Maximum Recurrent Peak Reverse Voltage (V)	20	30	40
V_{RMS}	Maximum RMS Voltage (V)	14	21	28
V_{DC}	Maximum DC Blocking Voltage (V)	20	30	40
$I_{F(AV)}$	Maximum Average Forward Rectified Current at T_L (See graphic)	1.0 A		
I_{FSM}	Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	50 A		
T_j	Operating Temperature Range	-55°C to +125°C		
T_{stg}	Storage Temperature Range	-55°C to +150°C		

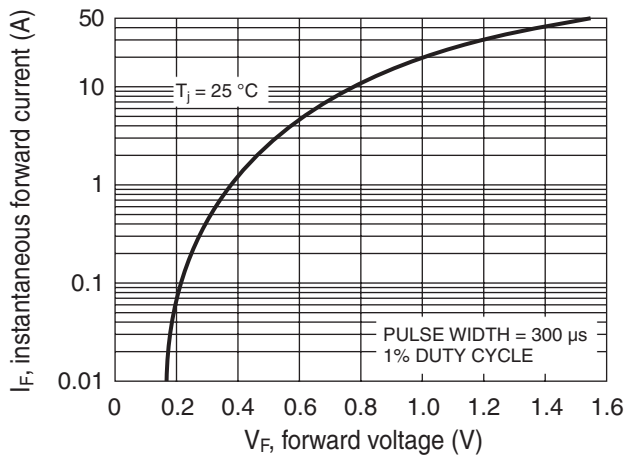
Electrical Characteristics at $T_{amb} = 25\text{ °C}$

V_F	Maximum Instantaneous Forward Voltage (Note 1) @ 1.0 A	0.39 V
I_R	Maximum DC Reverse Current @ $T_A = 25\text{ °C}$	0.2 mA
	at Rated DC Blocking Voltage @ $T_A = 100\text{ °C}$	50 mA
$R_{th(j-l)}$ $R_{th(j-a)}$	Typical Thermal Resistance (Note 2)	28 °C/W 88 °C/W

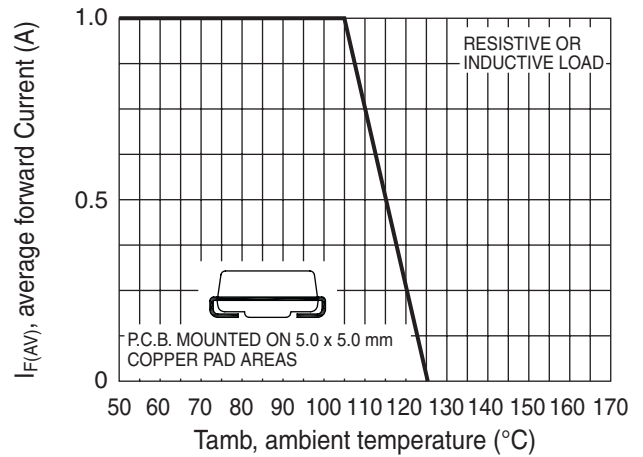
NOTES: 1. Pulse Test With PW = 300 μ sec, 1% Duty Cycle
2. Measured on P.C. Board with 5mm x 5mm Copper Pad Areas.

Rating And Characteristic Curves

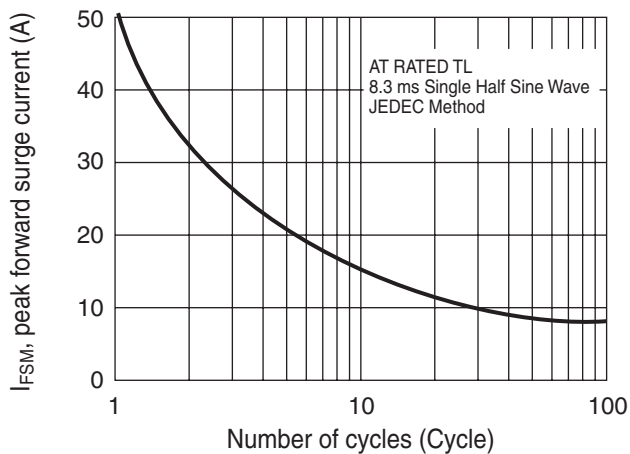
TYPICAL FORWARD CHARACTERISTIC



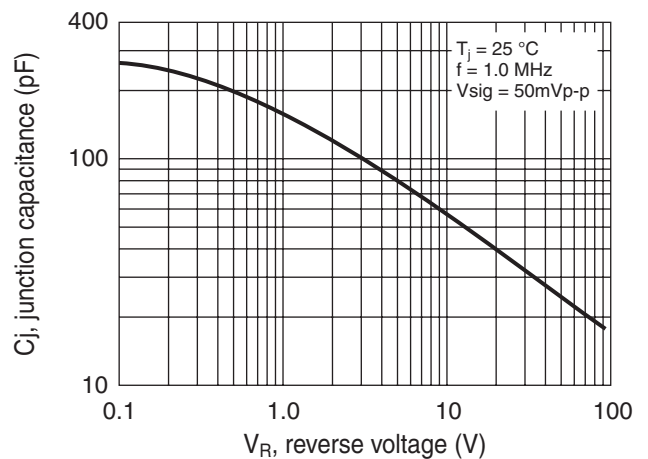
MAXIMUM FORWARD CURRENT DERATING CURVE



MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



TYPICAL JUNCTION CAPACITANCE



TYPICAL REVERSE CHARACTERISTIC

