



Surface Mount Schottky Rectifier

Features

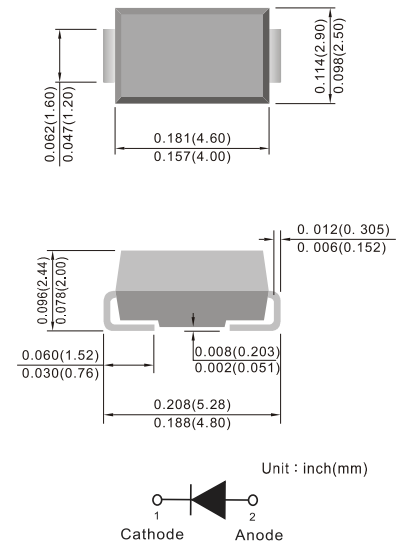
- Low profile package
- Ideal for automated placement
- Guardring for overvoltage protection
- Low power losses, high efficiency
- High forward surge capability
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C

Part no. with suffix "Q" means AEC-Q101 qualified

Mechanical Data

- **Package:** DO-214AC (SMA)
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end

DO-214AC (SMA)



Maximum Ratings & Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbols	SS34LAQ	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	40	V
Maximum RMS voltage	V_{RMS}	28	V
Maximum DC blocking voltage	V_{DC}	40	V
Maximum average forward rectified current	$I_{F(AV)}$	3.0	A
Non-repetitive peak forward surge current 8.3 ms singlehalf sine-wave	I_{FSM}	100	A
Maximum forward voltage @ $I_F=3.0A$	V_F	0.42	V
@ V_{DC} TA= 25°C	I_R	200	μA
Maximum reverse current TA= 100°C		10	mA
Typical thermal resistance (Note 1)	R θ JA	65	°C/W
	R θ JL	20	
VR=4.0V,f=1MHz Type junction capacitance	C_j	350	pF
Operating junction	T_j	-55 --- +150	°C
Storage temperature rang	TSTG	-55 --- +150	°C

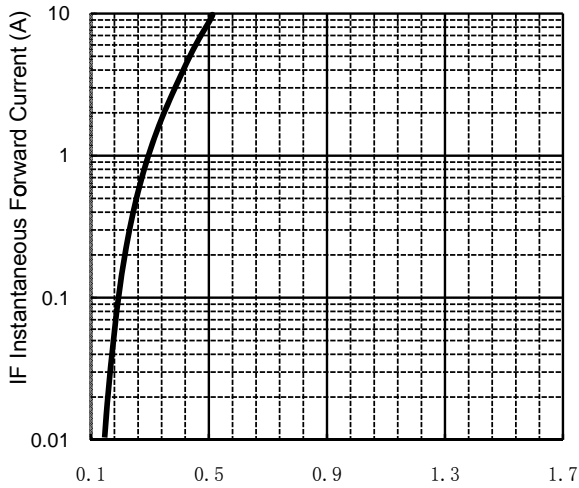
Note:

1) Thermal resistance from junction to ambient , PCB mounted.



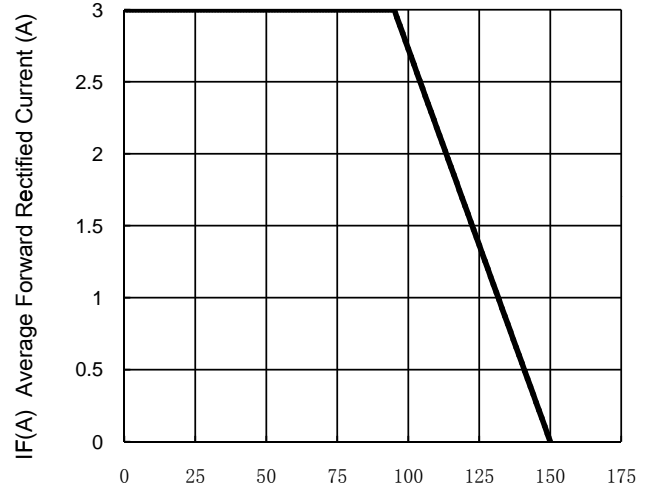
Characteristic Curves

TYPICAL FORWARD CHARACTERISTIC



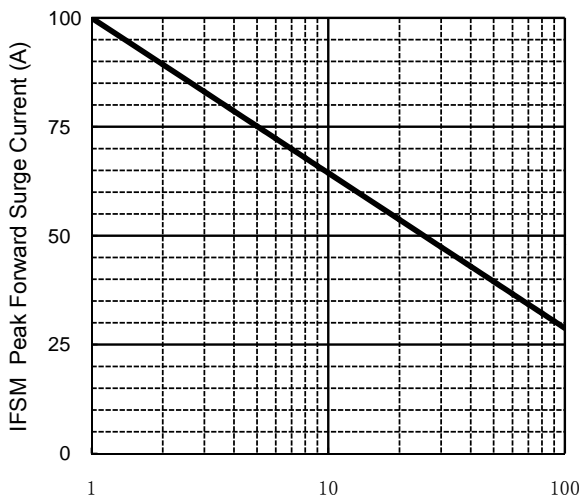
VF Instantaneous Forward Voltage (V)

FORWARD CURRENT DERATING CURVE



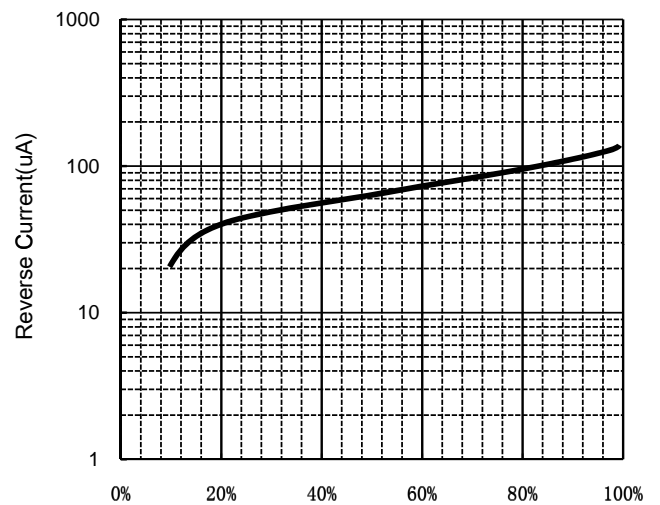
Tamb, ambient temperature (°C)

MAXIMUM NON REPETITIVE
PEAK FORWARD SURGE CURRENT



Number of Cycles at 60 Hz.

Typical Reverse Characteristics



Percent Of Rated Peak Reverse voltage %