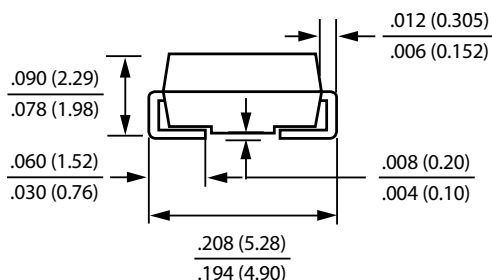
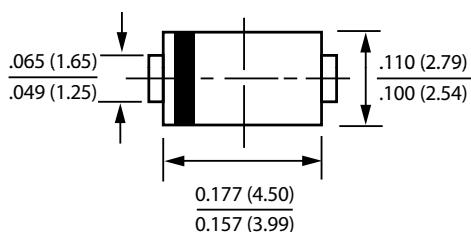


Schottky Barrier Rectifiers Low V_F Series



DO-214AC(SMA)

Dimensions in inches and (millimeters)



Ordering Information

Part Number	Remark
SK3xL	General
SK3xL-H	Halogen Free
SK3xL-Q	Automotive

PRIMARY CHARACTERISTICS

I_F	3A
V_{RRM}	20~40V
I_{FSM}	80A
V_F	0.45
T_J max	75°C

Features

- Low profile package
- Ideal for automated placement
- Guard Ring for over voltage protection
- Low forward voltage drop
- Component in accordance to RoHS 2002/95/EC
- AEC-Q101 qualified

Mechanical Data

- Case: DO-214AC (SMA)
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Terminals: Lead Free Plating (Tin Finish). Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.062 grams (approximate)

MAXIMUM RATINGS (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	SK32L	SK34L	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	20	40	V
Maximum RMS voltage	V_{RMS}	14	28	V
Maximum DC blocking voltage	V_{DC}	20	40	V
Maximum average forward rectified current	I_F	3.0		A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	80.0		A
Maximum Instantaneous Forward Voltage IF=3A @ 25°C	V_F	0.45		V
Maximum DC Reverse Current @ Tc=25°C at Rated DC Blocking Voltage @ Tc=75°C	I_R	1.5 70		mA
Typical Thermal Resistance(NOTE2)	$R_{\theta JC}$	60.0		°C/W
Typical Junction Capacitance(NOTE1)	C_j	250.0		pF
Operating Temperature Range	T_J	-25 to +75		°C
Storage Temperature Range	T_{STG}	-55 to +125		°C

NOTES:

- 1.Measured at 1.0MHZ and applied reverse voltage of 4.0V DC
- 2.Device mounted on FR-4 substrate, 1"*1", 2oz, single-sided, PC boards with 0.1"*0.15" copper pad.

Schottky Barrier Rectifiers Low V_F Series

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

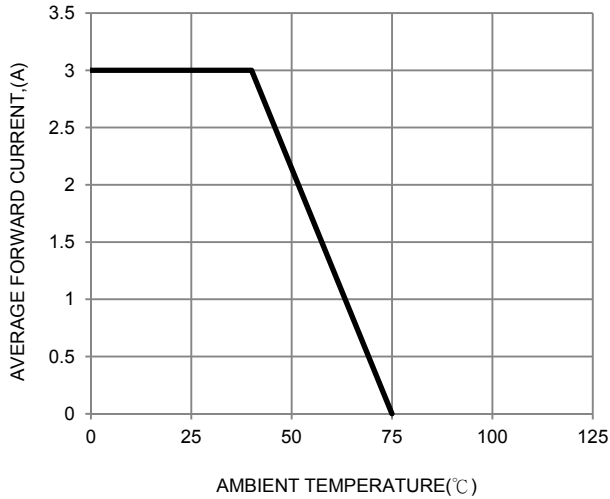


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

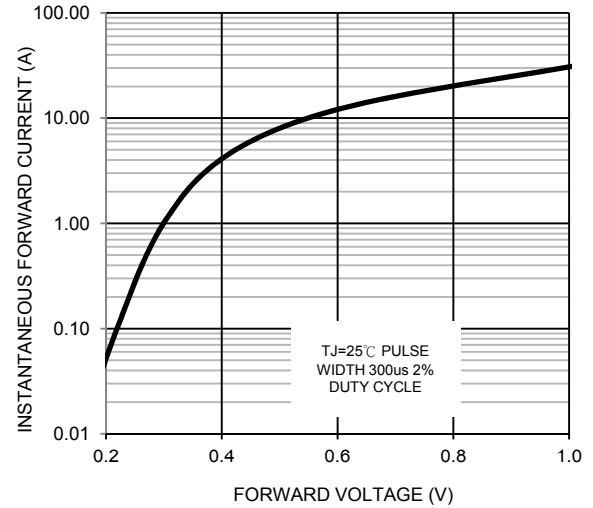


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

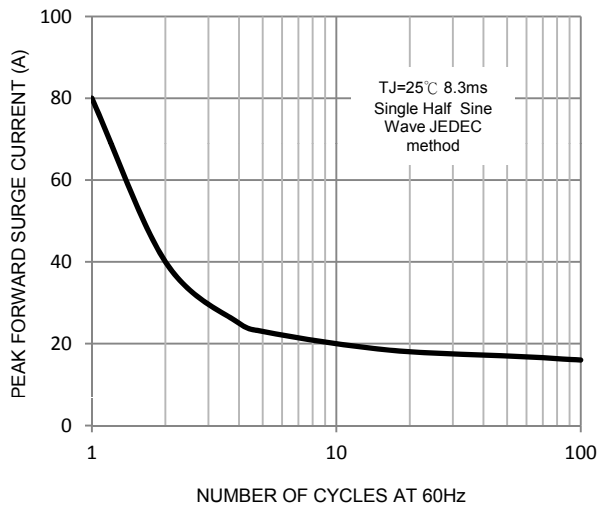


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

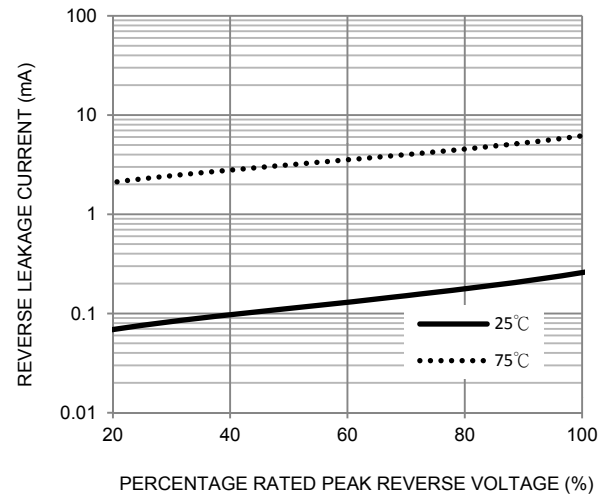


FIG. 5-TYPICAL JUNCTION CAPACITANCE

