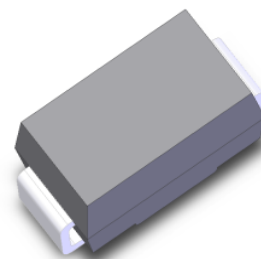


Features

- Schottky barrier diodes
- Low forward voltage drop
- High Junction Temperature
- Moisture sensitivity: level 1, per J-STD-020
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Halogen-free according to IEC 61249-2-21 definition



DO-214AC(SMA)

Typical Applications

For use in low voltage, high frequency inverters, free wheeling, and polarity protection application

Maximum Ratings (TA = 25 °C unless otherwise noted)							
Parameter	Symbol	SK32A	SK33A	SK34A	SK35A	SK36A	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	50	60	V
Maximum RMS voltage	V_{RMS}	14	21	28	35	42	V
Maximum DC blocking voltage	V_{DC}	20	30	40	50	60	V
Maximum average forward rectified current	$I_{F(AV)}$	3.0					A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	100					A
Operating junction and storage temperature range	T_J, T_{STG}	- 55 to + 125			- 55 to + 150		°C
Operating junction and storage temperature range	T_J, T_{STG}	- 55 to + 150					°C

Electrical Characteristics (TA = 25 °C unless otherwise noted)								
Parameter	Test Conditions	Symbol	SK32A	SK33A	SK34A	SK35A	SK36A	Unit
Maximum instantaneous forward voltage	$I_F=3A, T_A=25^\circ C$	V_F	0.50			0.70		V
Maximum DC reverse current at rated DC blocking voltage	$T_A=25^\circ C$	I_R	0.20			0.15		mA
	$T_A=125^\circ C$		10					
Typical junction capacitance	4.0 V, 1 MHz	C_J	250					pF

Thermal Characteristics							
Parameter	Symbol	SK32A	SK33A	SK34A	SK35A	SK36A	Unit
Typical thermal resistance ⁽¹⁾	$R_{\theta JA}$	77					°C/W
	$R_{\theta JC}$	40					
	$R_{\theta JI}$	18					

Note1: Thermal resistance from junction to lead, mounted on PCB with 5.0x5.0mm copper pads



SK32A thru SK36A

Surface Mount Schottky Rectifier

Reverse Voltage 20V to 60V Forward Current 3A

Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

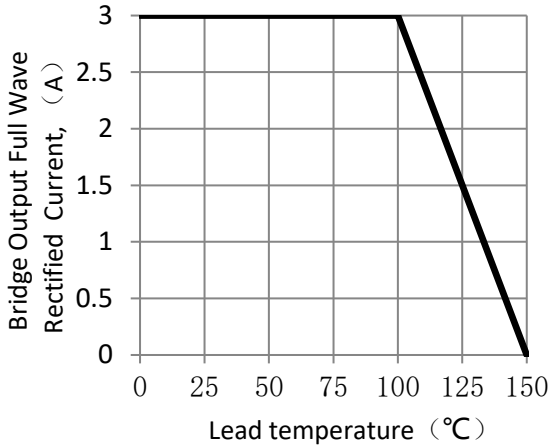


Figure 1. Forward Current Derating Curve

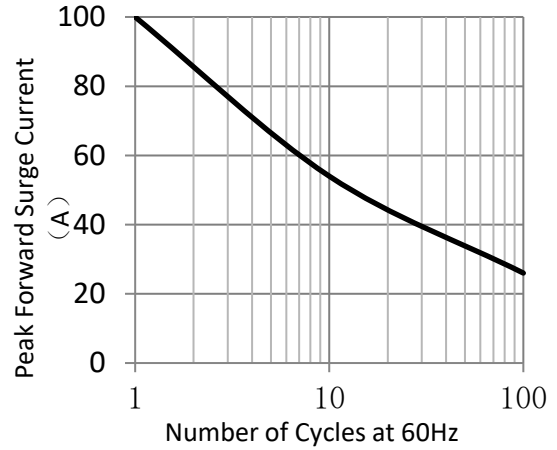


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

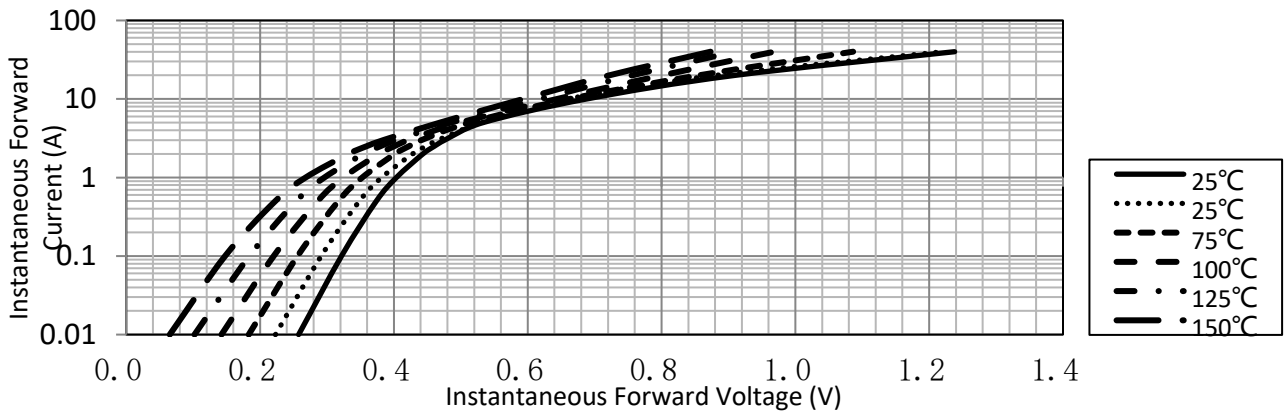


Figure 3. Typical Instantaneous Forward Characteristics (SK32A thru SK34A)

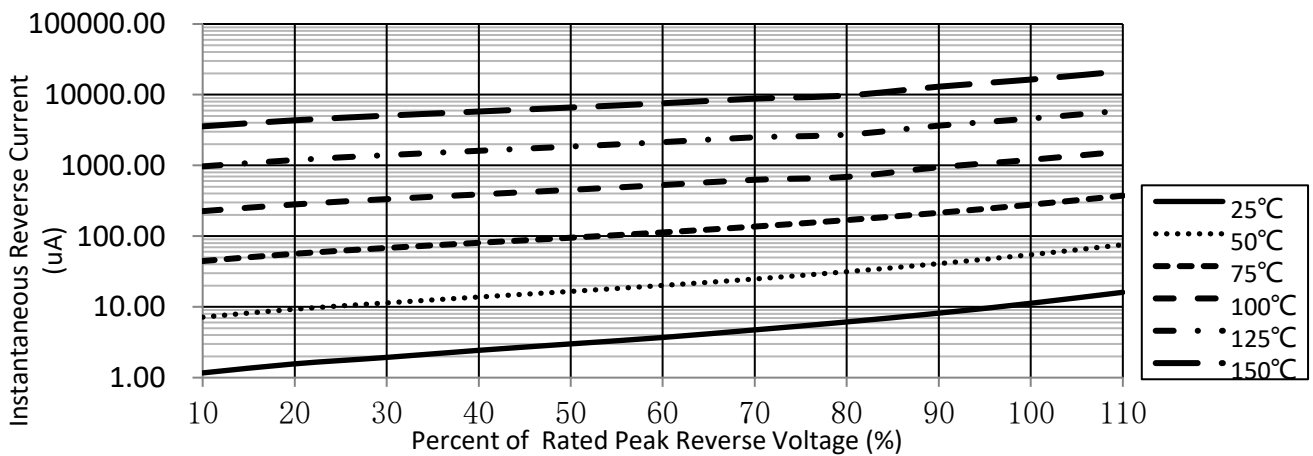


Figure 4. Typical Reverse Characteristics (SK32A thru SK34A)



SK32A thru SK36A

Surface Mount Schottky Rectifier

Reverse Voltage 20V to 60V Forward Current 3A

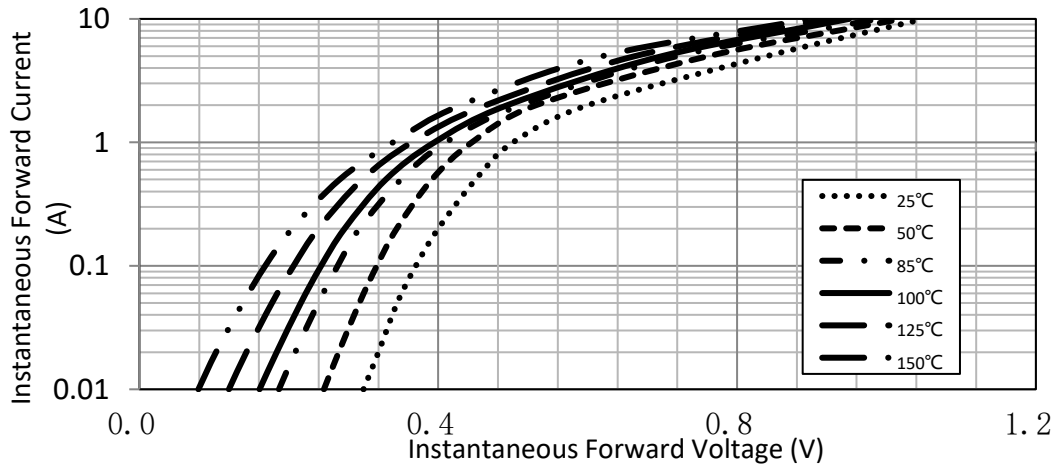


Figure 5. Typical Instantaneous Forward Characteristics (SK35A thru SK36A)

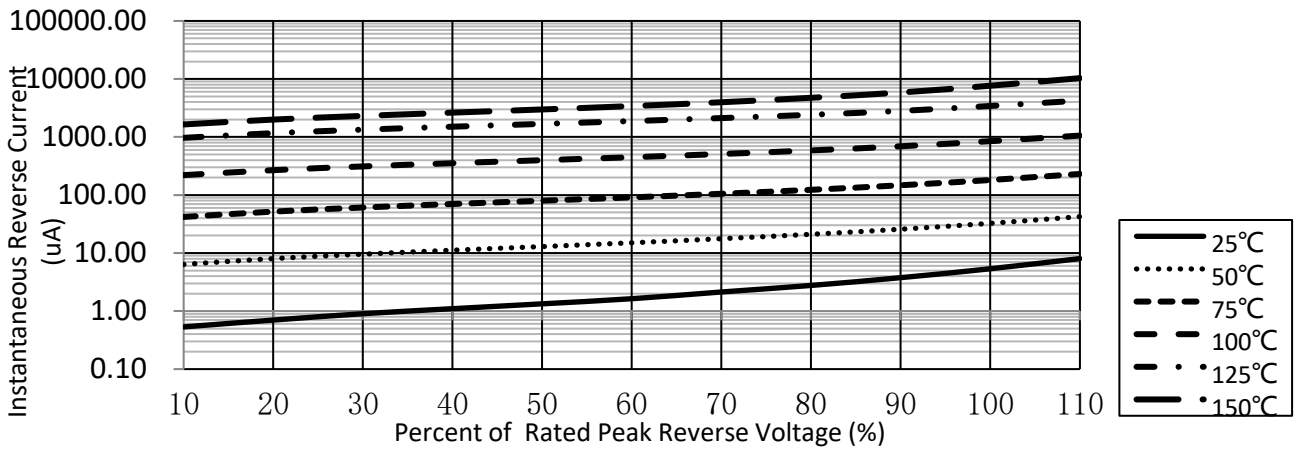


Figure 6. Typical Reverse Characteristics (SK35A thru SK36A)

Package Outline Dimensions

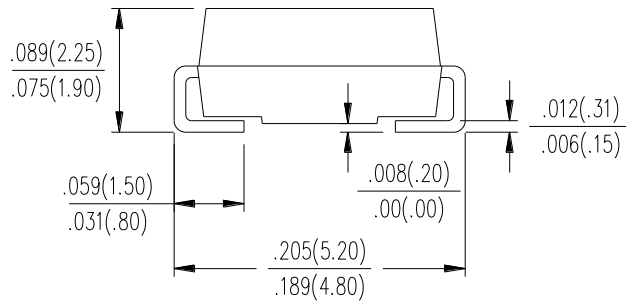
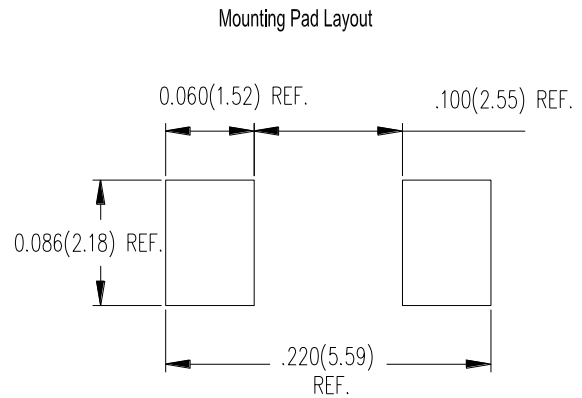
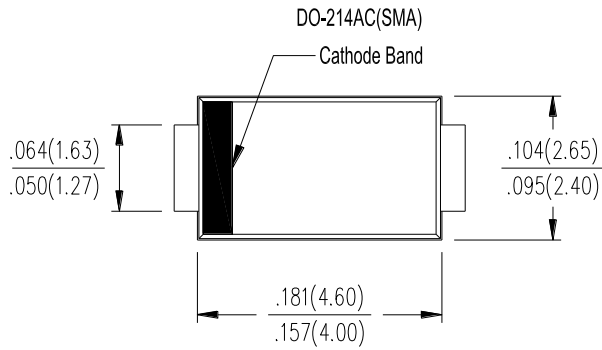


SK32A thru SK36A

Surface Mount Schottky Rectifier

Reverse Voltage 20V to 60V Forward Current 3A

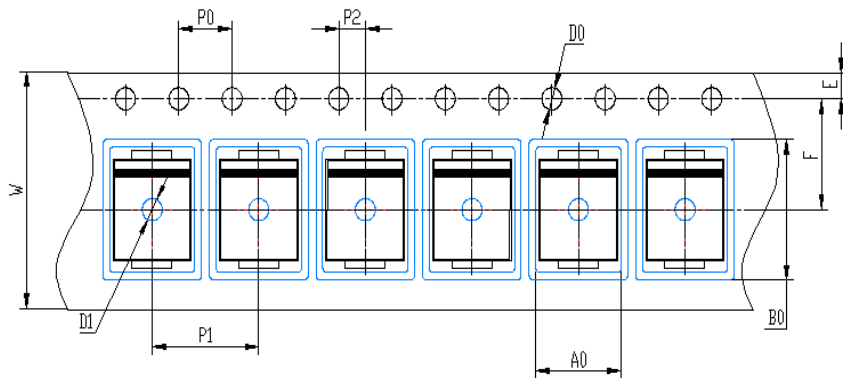
in inches (millimeters)



Packing Information

7500 pcs/Reel, 10 Reels/Box; 12mm Tape, 13" Reel

Tape & Reel Specification



Symbols	SMA(mm)
W	12 ± 0.2
E	1.75 ± 0.1
F	5.5 ± 0.05
D0	1.5 ± 0.1
D1	1.50 +0.1/-0
P0	4.0 ± 0.1
P1	4.0 ± 0.1
P2	2.0 ± 0.05
A0	2.65 ± 0.1
B0	5.25 ± 0.1

Version	Revision content	Date
A	Initial version release	Jun-21

Disclaimers



SK32A thru SK36A

Surface Mount Schottky Rectifier

Reverse Voltage 20V to 60V Forward Current 3A

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