SK16D3

**1.0A Surface Mount Schottky Barrier Rectifiers - 60V**

Features

- For use in low voltage, high frequency inverters
- Free wheeling, and polarity protection applications

Mechanical data

- **Case**: JEDEC SOD-323 molded plastic body
- **Terminals**: Solder plated, solderable per MIL-STD-750, Method 2026
- **Polarity**: Color band denotes cathode end
- **Mounting Position**: Any

Package outline

SOD-323

Dimensions in inches and (millimeters)
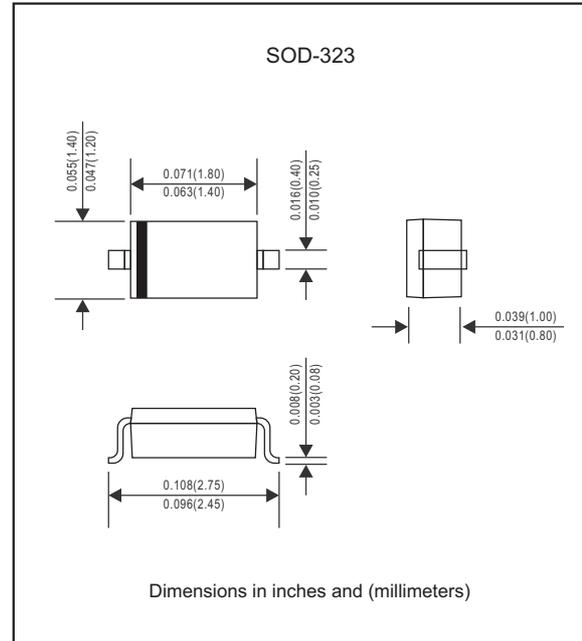
Maximum ratings and Electrical Characteristics (AT T_A=25°C unless otherwise noted)

Parameter	Symbols	SK16D3	Units
Maximum recurrent peak reverse voltage	V_{RRM}	60	V
Maximum RMS voltage	V_{RMS}	42	V
Maximum DC blocking voltage	V_{DC}	60	V
Continuous forward current	I_F	1	A
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	0.1 @VR=60V	mA
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	10	A
Maximum Instantaneous Forward Voltage	V_F	0.7 @ IF=1.0A	V
Total capacitiance VR=4V,f=1MHz	C_{tot}	120	pF
Total power dissipation	P_{tot}	250	mW
Thermal Resistance, Junction to Ambient Air	$R_{\theta JA}$	400	°C/W
Junction Temperature	T_j	125	°C
Storage Temperature	T_{stg}	-55 ~ +150	°C

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Rating and characteristic curves

Fig.1 Power Derating Curve

Power dissipation (mW) vs Ambient temperture Ta (°C)

Single phase half-wave 60 Hz
resistive or inductive load
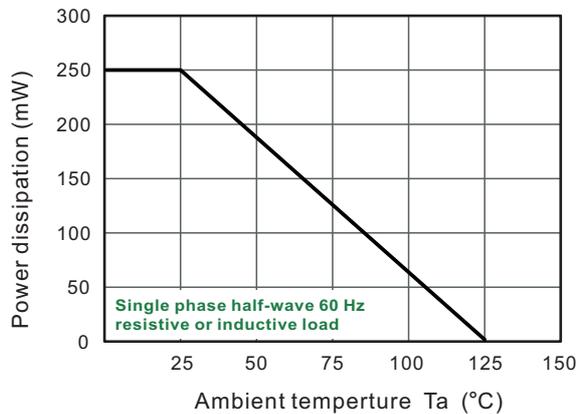
Fig.2 Typical Reverse Characteristics

Instaneous Reverse Current IR (μA) vs Percent of Rated Peak Reverse Voltage (%)

$T_J=100°C$

$T_J=25°C$
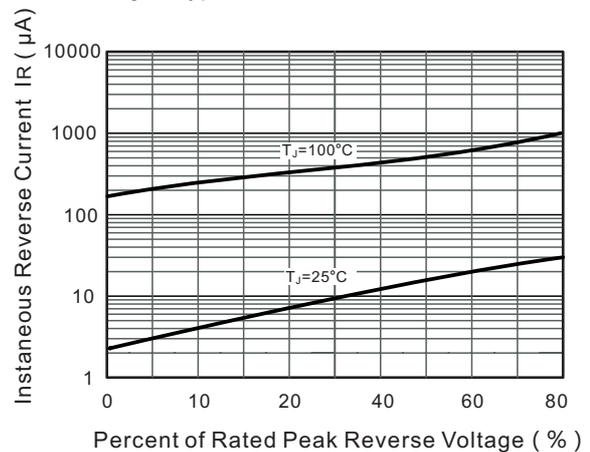
Fig.3 TYPICAL FORWARD VOLTAGE

INSTANTANEOUS FORWARD CURRENT (mA) vs INSTANTANEOUS FORWARD VOLTAGE (V)

$T_a=100°C$ $T_a=25°C$
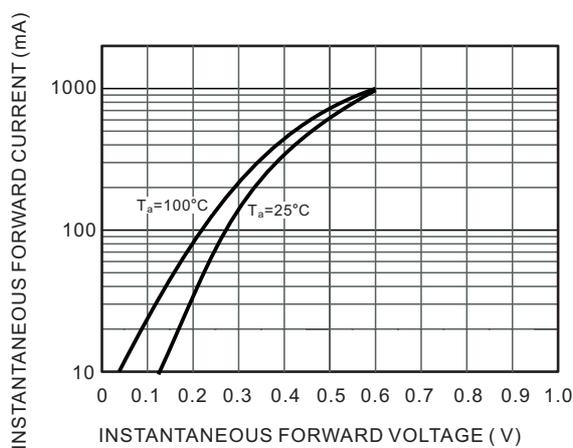
Fig.4 Typical Junction Capacitance

Junction Capacitance (pF) vs Reverse Voltage (V)

$T_a=25°C$
f=1MHz
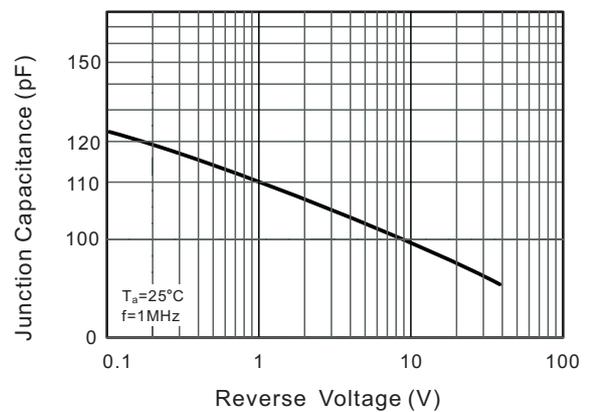
Marking

Type number	Marking code
SK16D3	SM

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