



SS32HE THRU SS3DHE

Surface Mount Schottky Barrier Rectifier

Features

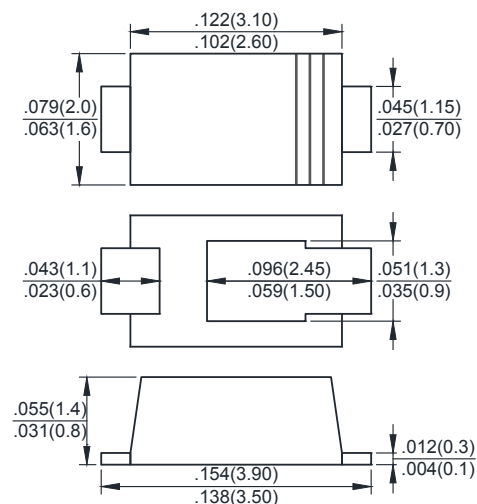
- ★ Low profile package
- ★ Ideal for automated placement
- ★ Guardring for overvoltage protection
- ★ Low power losses, high efficiency
- ★ Low forward voltage drop
- ★ High surge current capability

Mechanical Data

- ★ Case: Molded plastic, SOD-123HE
- ★ Epoxy: UL 94V-0 rate flame retardant
- ★ Terminals: Solderable per MIL-STD-750, method 2026
- ★ Polarity: Color band denotes cathode end
- ★ Mounting position: Any

Voltage Range 20 to 200V
Current 3.0 Ampere

SOD-123HE



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

PARAMETER	SYMBOL	SS32 HE	SS33 HE	SS34 HE	SS36 HE	SS3B HE	SS3C HE	SS3D HE	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	60	100	150	200	V
Maximum RMS voltage	V_{RMS}	14	21	28	42	70	105	140	V
Maximum DC blocking voltage	V_{DC}	20	30	40	60	100	150	200	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}	50							A
Maximum instantaneous forward voltage @ $I_F=3.0A$	V_F	0.55			0.7	0.85	0.9		V
Maximum DC reverse current at rated DC blocking voltage @ $T_A=25^\circ C$ @ $T_A=100^\circ C$	I_R	0.5				10			mA
Operating junction temperature range	T_J	-55 to +125			-55 to +150				$^\circ C$
Storage temperature range	T_{STG}	-55 to +150							$^\circ C$

RATINGS AND CHARACTERISTICS CURVES

Fig.1 - Forward Current Derating Curve

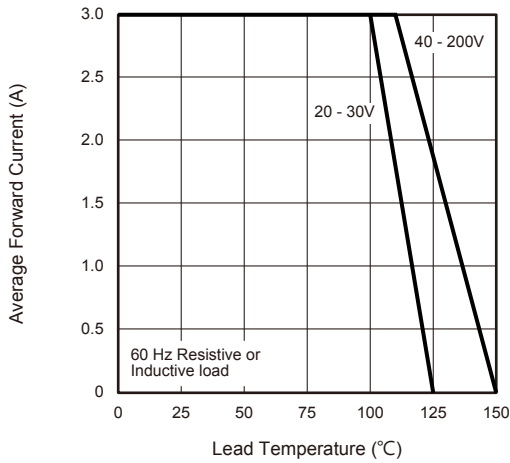


Fig.2 - Maximum Non-Repetitive Peak Forward Surge Current

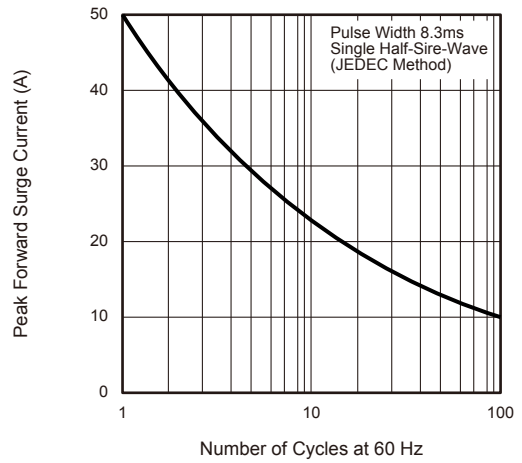


Fig.3 - Typical Instantaneous Forward Characteristics

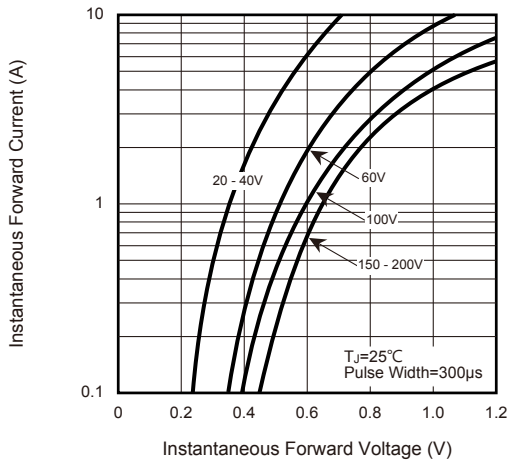
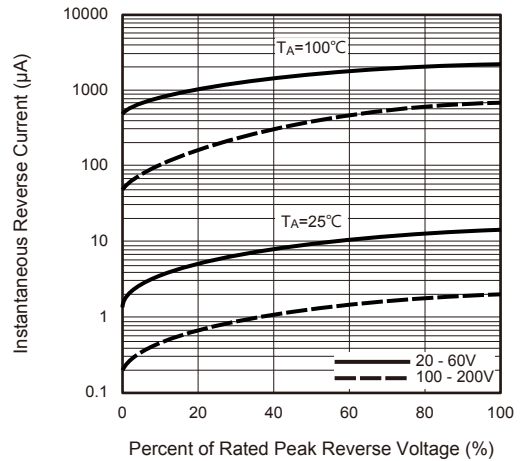


Fig.4 - Typical Reverse Leakage Characteristics



ORDERING INFORMATION

Part Number ⁽¹⁾	Marking Code	Package	Quantity	Delivery Mode
SS3xHE	3x	SOD-123HE	3000	7" diameter plastic tape and reel

Note : (1) "x" defines voltage from 20V(SS32HE) to 200V(SS3DHE)