YENYO

SS13SE THRU SS16SE

Surface Mount Schottky Barrier Rectifier

Voltage Range 30 to 60V
Current 1.0 Ampere

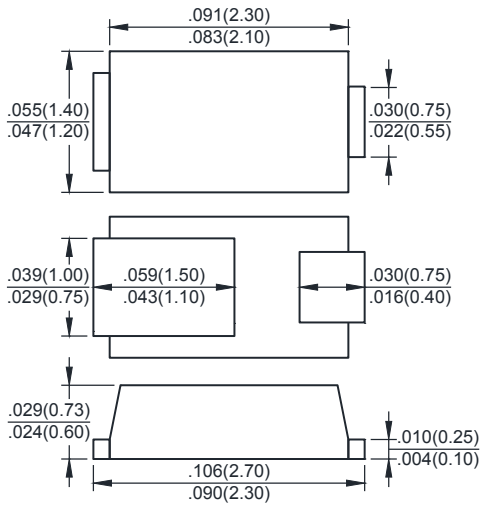
Features

- ✶ 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-323HE
- ✶ Epoxy: UL 94V-0 rate flame retardant
- ✶ Terminals: Solderable per MIL-STD-750, method 2026
- ✶ Polarity: Color band denotes cathode end
- ✶ Mounting position: Any

SOD-323HE



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

PARAMETER	SYMBOL	SS13SE	SS14SE	SS15SE	SS16SE	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	30	40	50	60	V
Maximum RMS voltage	V_{RMS}	21	28	35	42	V
Maximum DC blocking voltage	V_{DC}	30	40	50	60	V
Maximum average forward rectified current	$I_{F(AV)}$	1.0				A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	25				A
Maximum instantaneous forward voltage @ I_F=1.0A	V_F	0.6		0.68		V
Maximum DC reverse current @T_A=25℃ at rated DC blocking voltage @T_A=100℃	I_R	0.2 15		0.15 12		mA
Typical thermal resistance (Note 1)	$R_{\theta JA}$	125				℃/W
	$R_{\theta JL}$	30				℃/W
Operating junction temperature range	T_J	-55 to +150				℃
Storage temperature range	T_{STG}	-55 to +150				℃

NOTE : (1) PCB mounted with 6.0 mm x 6.0 mm copper pad areas.

RATINGS AND CHARACTERISTICS CURVES SS13SE THRU SS16SE

Fig.1 - Forward Current Derating Curve

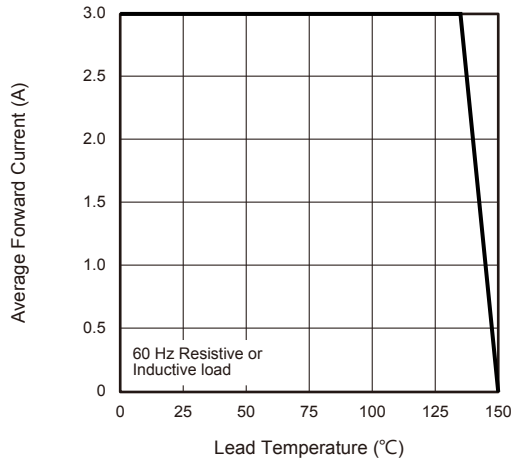


Fig.2 - Maximum Non-Repetitive Peak Forward Surge Current

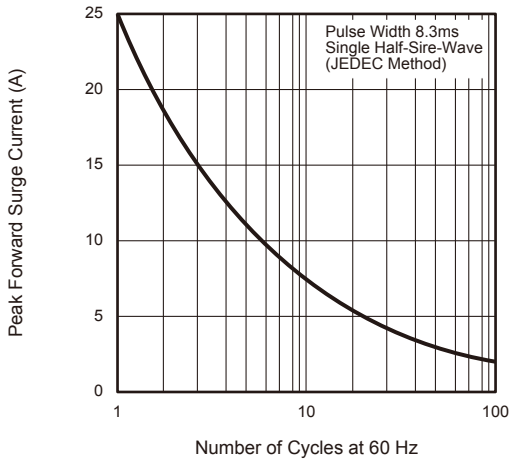


Fig.3 - Typical Instantaneous Forward Characteristics

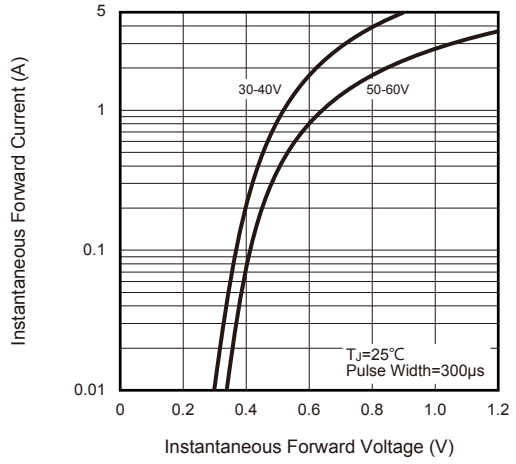


Fig.4 - Typical Reverse Leakage Characteristics