

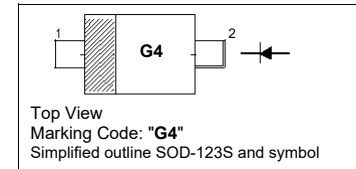
## SS1040W SURFACE MOUNT SCHOTTKY BARRIER DIODE

### FEATURES

- Low Turn-on Voltage
- Fast Switching
- PN Junction Guard Ring for Transient and ESD Protection
- Designed for Surface Mount Application

### PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



### Absolute Maximum Ratings ( $T_a = 25^\circ\text{C}$ )

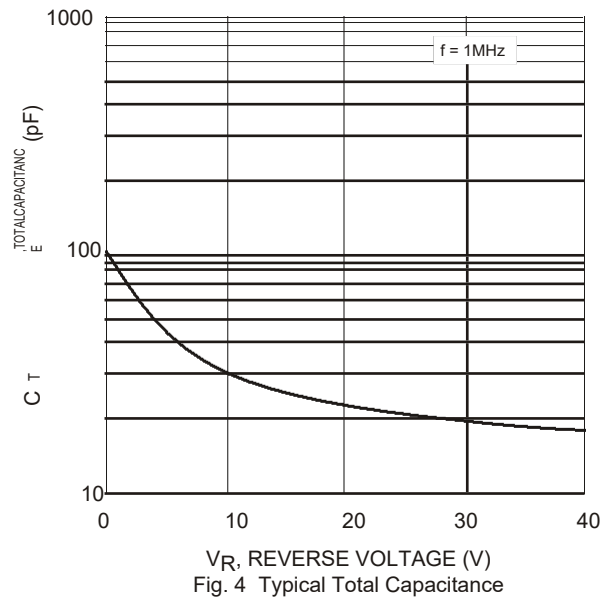
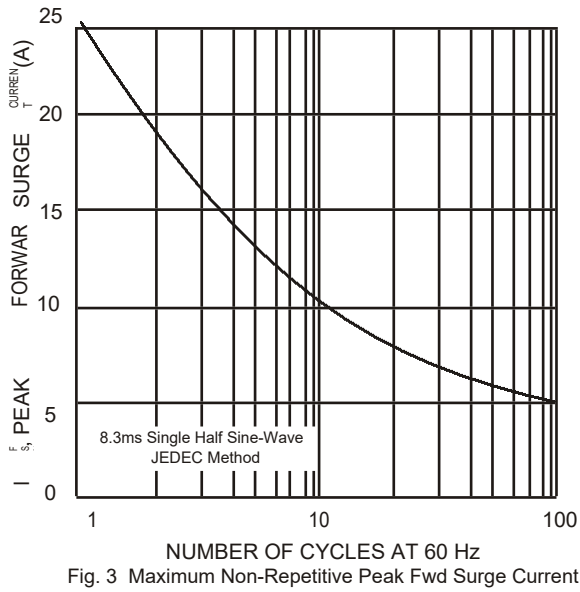
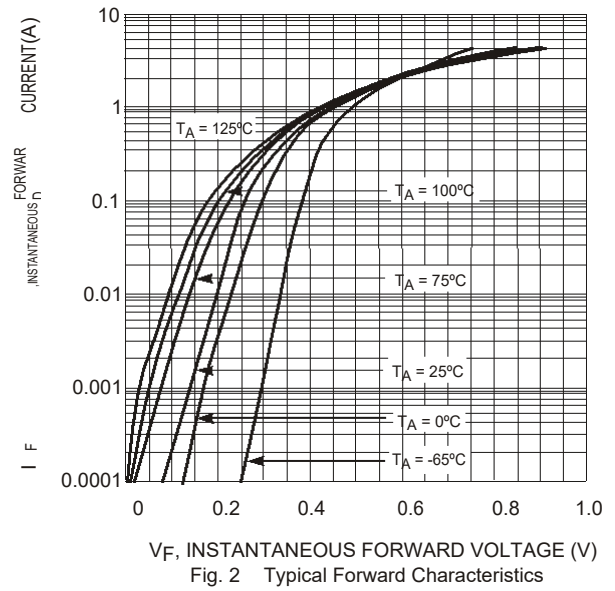
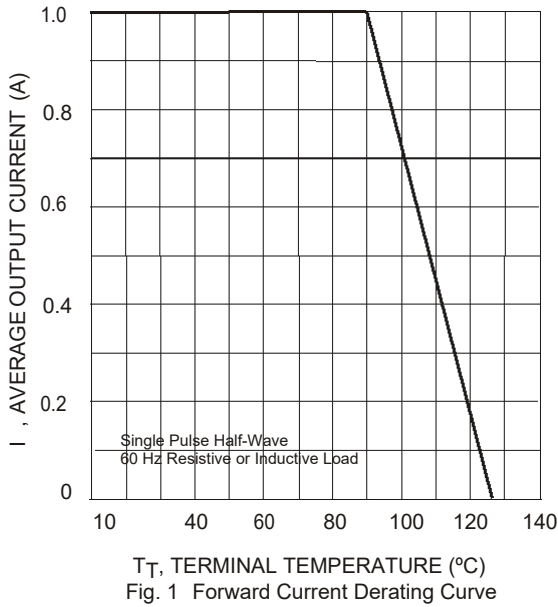
Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$V_{RRM}$ $V_{RWM}$ $V_R$	40	V
Forward Continuous Current (Note 1)	$I_F$	1.0	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	25	A
Power Dissipation (Note 1)	$P_d$	450	mW
Typical Thermal Resistance, Junction to Ambient Air (Note 1)	$R_{JA}$	222	$^\circ\text{C}/\text{W}$
Operating and Storage Temperature Range	$T_J, T_{STG}$	-65 to +125	$^\circ\text{C}$

### Characteristics ( $T_a = 25^\circ\text{C}$ )

Characteristic	Symbol	Value	Unit
Forward Voltage Drop @ $I_F = 1.0\text{A}$	$V_{FM}$	0.55	V
Peak Reverse Leakage Current @ DC Blocking Voltage	$I_{RM}$	500	$\mu\text{A}$
Typical Junction Capacitance ( $V_R = 4\text{V DC}, f = 1\text{MHz}$ )	$C_j$	50	pF

Note: 1. Valid provided that terminals are kept at ambient temperature.

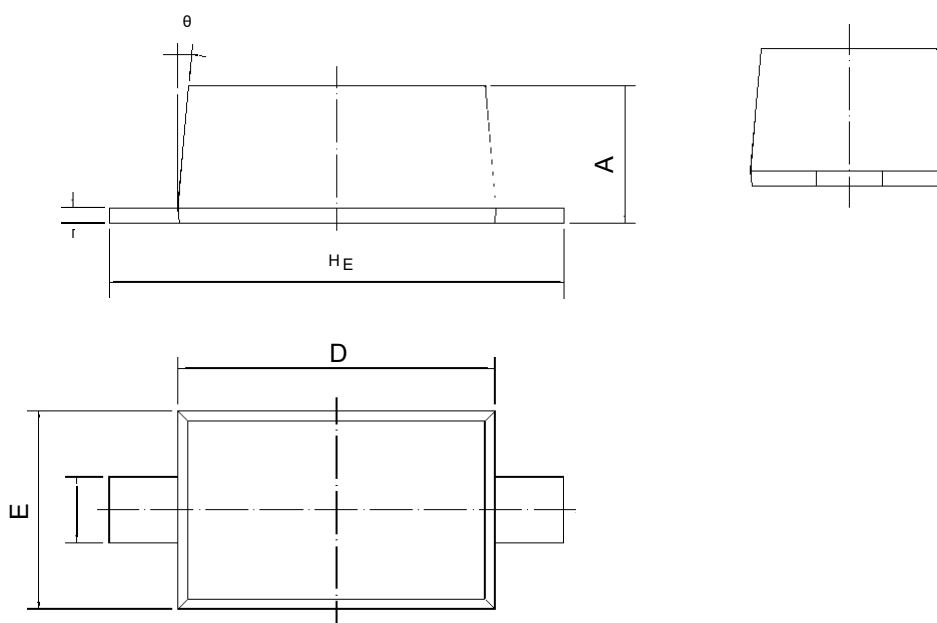
Typical Characteristics



PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123S



UNIT	A	b <sub>p</sub>	c	D	E	H <sub>E</sub>	$\theta$
mm	0.975 0.875	0.6 0.5	0.135 0.100	2.7 2.6	1.65 1.55	3.85 3.55	5°