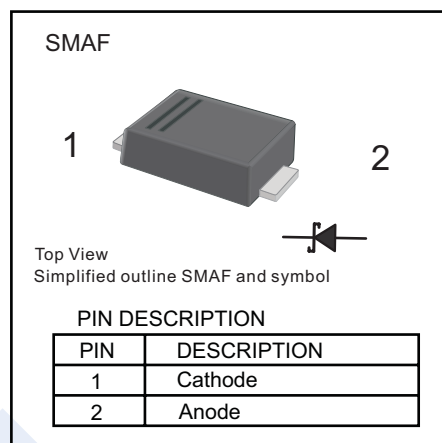


Schottky Barrier Rectifier

SBR3A40SA

■ Features

- Metal silicon junction, majority carrier conduction
- For surface mounted applications
- Low power loss, high efficiency
- High forward surge current capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

■ Absolute Maximum Ratings $T_A = 25^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Rating	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	40	V
Surge Peak Reverse Voltage	V_{RSM}	28	
Maximum DC Blocking Voltage	V_{DC}	40	
Instantaneous Forward Voltage at 3A	V_F	0.55	
Averaged Forward Current	I_O	3	A
Peak forward surge current	I_{FSM}	80	
Maximum DC Reverse Current at rated DC blocking voltage	I_R	0.5	mA
$T_A = 25^\circ\text{C}$ $T_A = 100^\circ\text{C}$		5	
Typical Junction Capacitance *1	C_j	250	pF
Typical thermal resistance *2	R_{thJA}	70	$^\circ\text{C}/\text{W}$
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature	T_{stg}	-55 to 150	

* 1 Measured at 1MHz and applied reverse voltage of 4V D.C

* 2 P.C.B. mounted with 2" × 2" (5×5 cm) copper pad areas.

■ Marking

NO.	SBR3A40SA
Marking	SS34

Schottky Barrier Rectifier

SBR3A40SA

■ Typical Characteristics

Fig.1 Forward Current Derating Curve

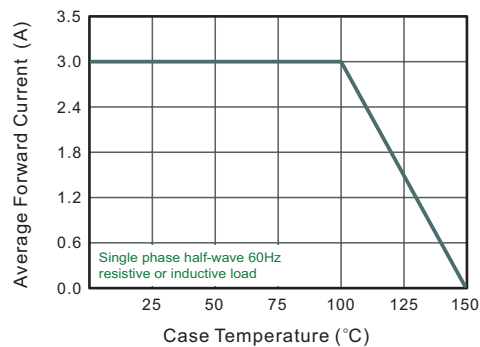


Fig.2 Typical Reverse Characteristics

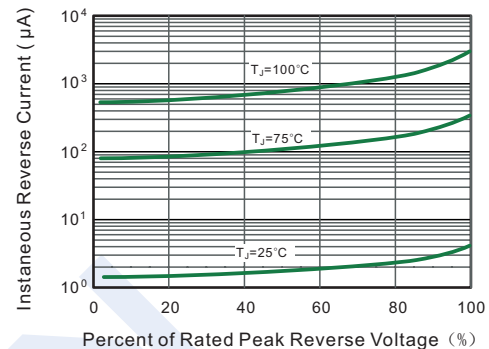


Fig.3 Typical Forward Characteristic

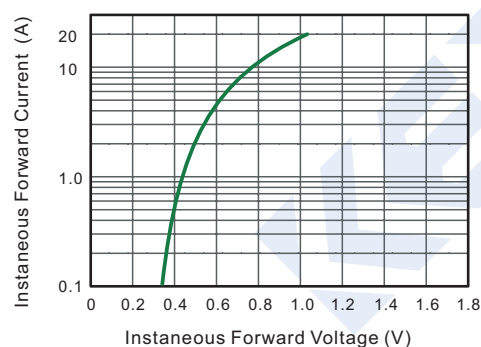


Fig.4 Typical Junction Capacitance

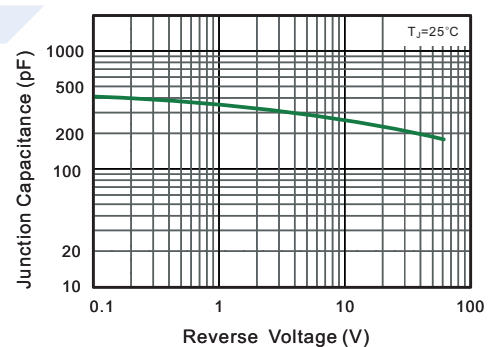


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

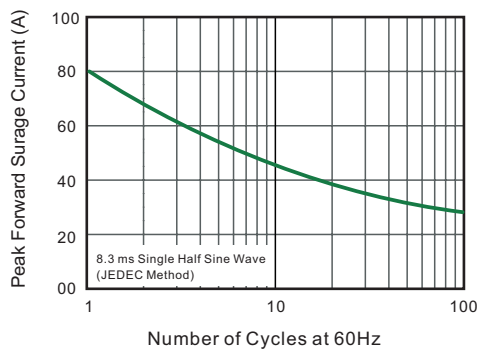
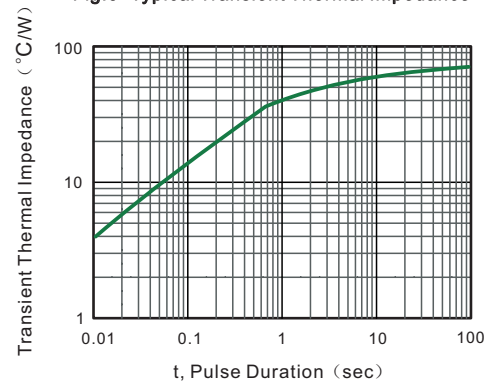


Fig.5- Typical Transient Thermal Impedance



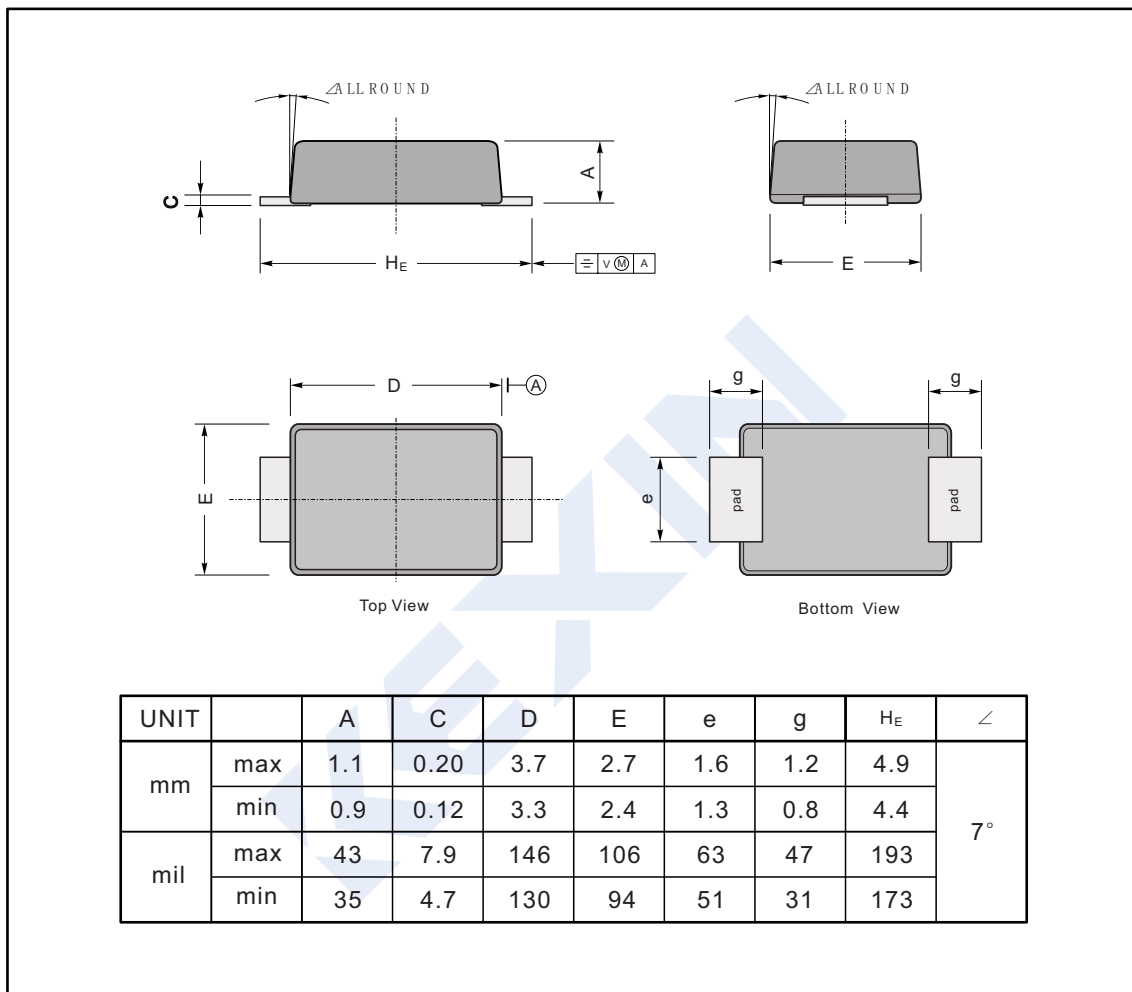
Schottky Diodes

SBR3A40SA

■ Package Outline

Plastic surface mounted package; 2 leads

SMAF



■ The recommended mounting pad size

