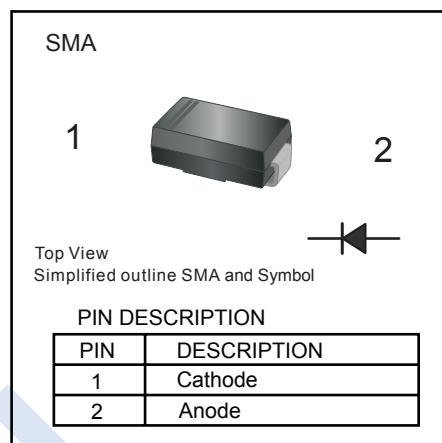


Rectifiers

1KR3101A ~ 1KR3107A

■ Features

- Reverse Voltage - 50 to 1000 V
- Forward Current - 1.0 A
- For surface mounted applications
- Low profile package
- Glass Passivated Chip Junction
- Easy to pick and place



■ Absolute Maximum Ratings and Electrical characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	1KR 3101A	1KR 3102A	1KR 3103A	1KR 3104A	1KR 3105A	1KR 3106A	1KR 3107A	Unit	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V	
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700		
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000		
Maximum Instantaneous Forward Voltage at 1A	V_F	1.1								A
Maximum Averaged Forward Rectified Current	$I_{F(AV)}$	1								
Peak Forward Surge Current, 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I_{FSM}	30								
Maximum DC Reverse Current $T_a=25^\circ\text{C}$ at rated DC blocking voltage $T_a=125^\circ\text{C}$	I_R	5 50								μA
Typical Junction Capacitance *1	C_j	15								pF
Typical Thermal Resistance *2	$R_{\theta JA}$	75								$^\circ\text{C/W}$
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +150								$^\circ\text{C}$

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

* 2 P.C.B. mounted with 2.0" × 2.0" (5×5 cm) copper pad areas.

■ Marking

NO.	1KR 3101A	1KR 3102A	1KR 3103A	1KR 3104A	1KR 3105A	1KR 3106A	1KR 3107A
Marking	S1A	S1B	S1D	S1G	S1J	S1K	S1M

Rectifiers

1KR3101A ~ 1KR3107A

■ Typical Characteristics

Fig.1 Forward Current Derating Curve

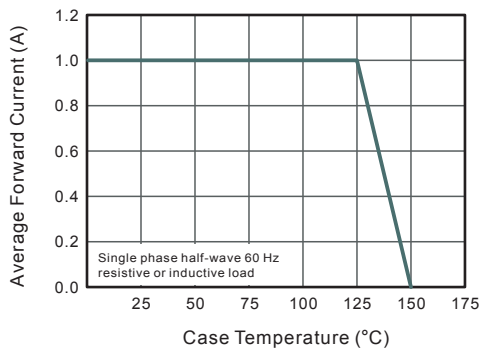


Fig.2 Typical Instantaneous Reverse Characteristics

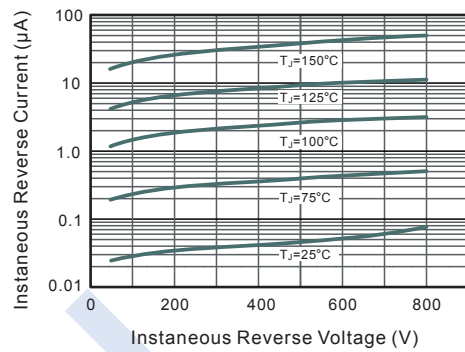


Fig.3 Typical Forward Characteristic

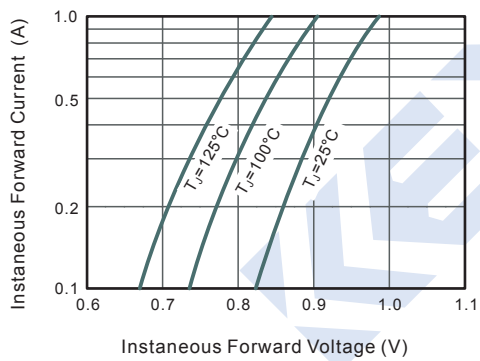


Fig.4 Typical Junction Capacitance

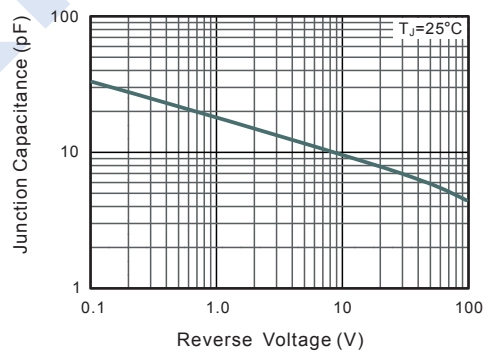
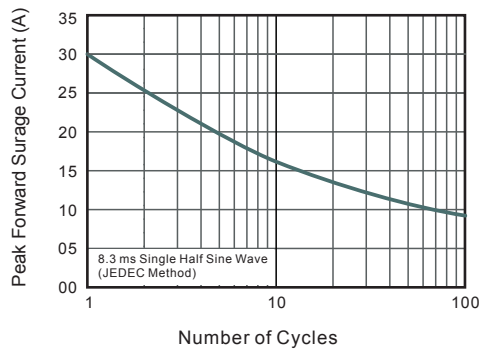


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



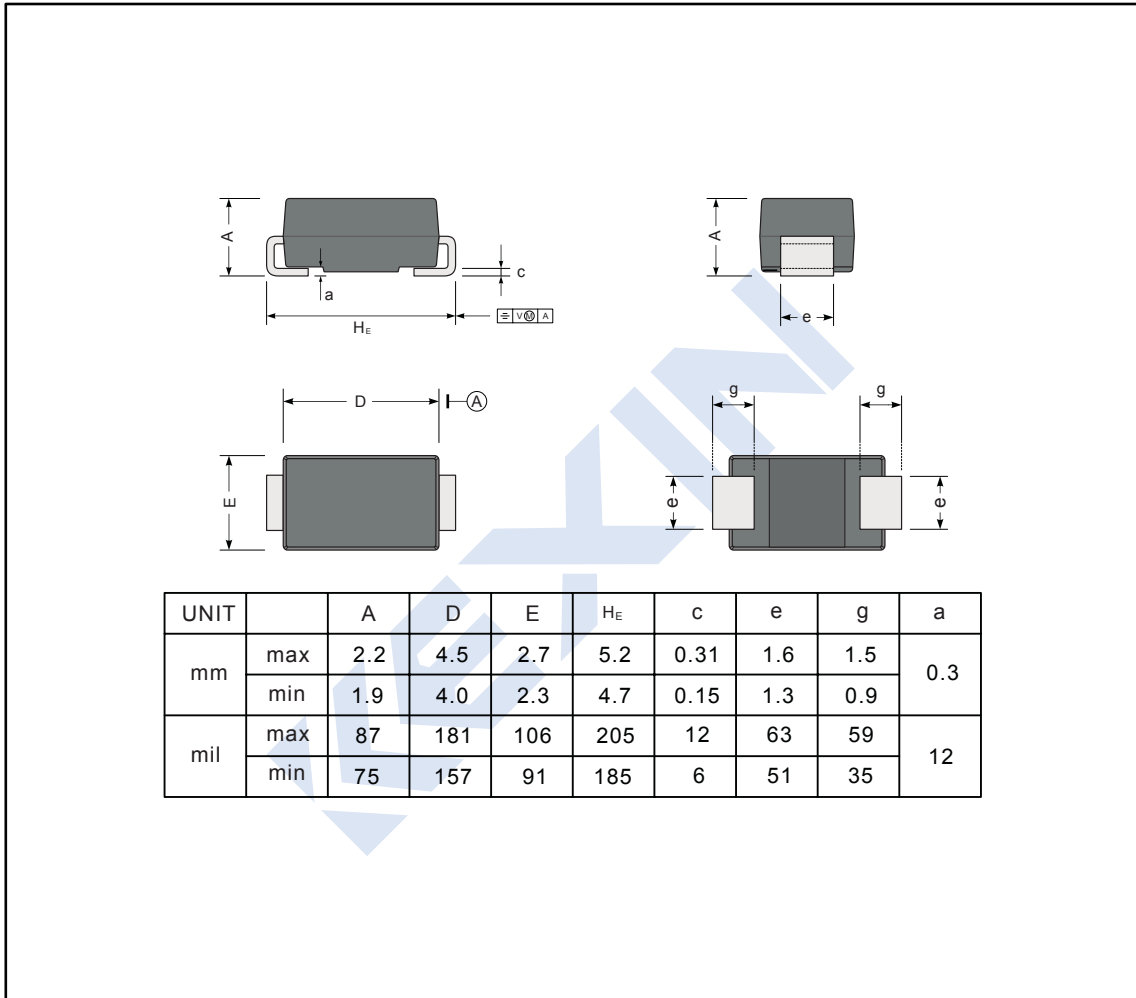
Rectifiers

1KR3101A ~ 1KR3107A

■ Package Outline Dimensions

Plastic surface mounted package; 2 leads

SMA



■ The recommended mounting pad size

