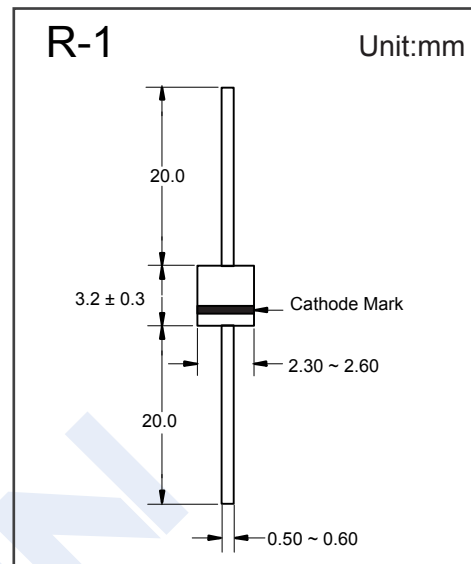


## Rectifier Diodes

## 1A1 ~ 1A7

## ■ Features

- High Reliability
- Low Leakage
- Low Forward Voltage Drop



## ■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	1A1	1A2	1A3	1A4	1A5	1A6	1A7	Unit
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	
DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	
Averaged Forward Current T <sub>J</sub> =25°C	I <sub>FAV</sub>	1							A
Peak forward Surge Current @ 8.3ms half sine	I <sub>FSM</sub>	30							
Thermal Resistance Junction to Ambient	R <sub>θJA</sub>	60							°C/W
Junction Temperature	T <sub>J</sub>	150							°C
Storage Temperature	T <sub>stg</sub>	-55 to 150							

## ■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward voltage	V <sub>F</sub>	I <sub>FM</sub> = 1.0A, T <sub>a</sub> = 25°C			1.1	V
Reverse voltage leakage current	I <sub>R</sub>	T <sub>J</sub> = 25°C			5	uA
		T <sub>J</sub> = 100°C			500	
Typical Junction Capacitance	C <sub>J</sub>	V <sub>R</sub> =4V, f=1MHz			15	pF

# Rectifier Diodes

## 1A1 ~ 1A7

### Typical Characteristics

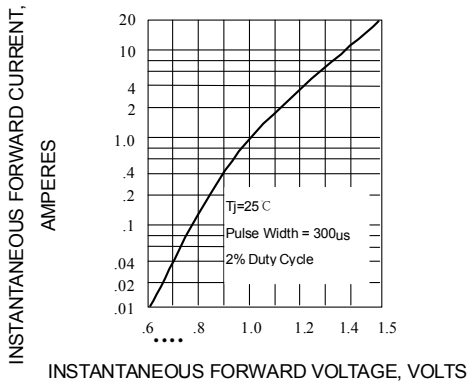


Fig. 1-TYPICAL FORWARD CHARACTERISTICS

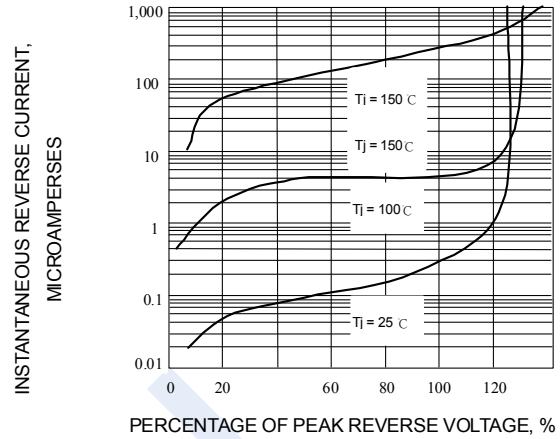


Fig. 2-TYPICAL REVERSE CHARACTERISTICS

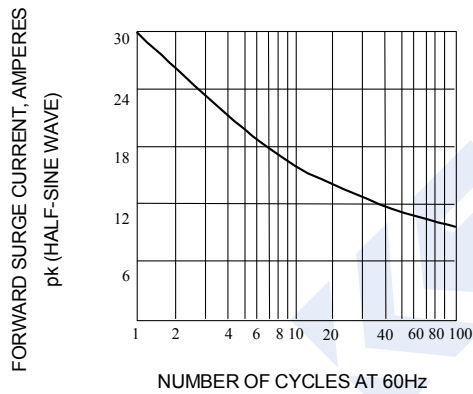


Fig. 3-MAXIMUM OVERLOAD SURGE-CURRENT

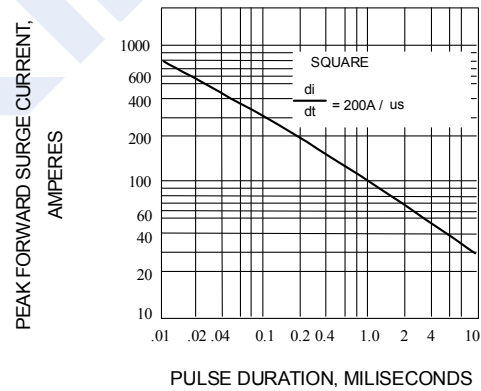


Fig. 4-PEAK FORWARD SURGE CURRENT

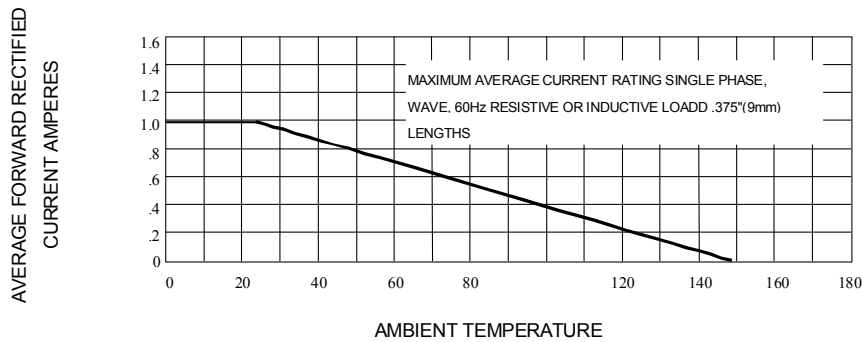


Fig. 5-FORWARD DERATING CURVE