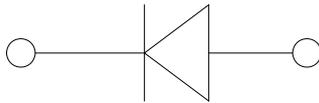
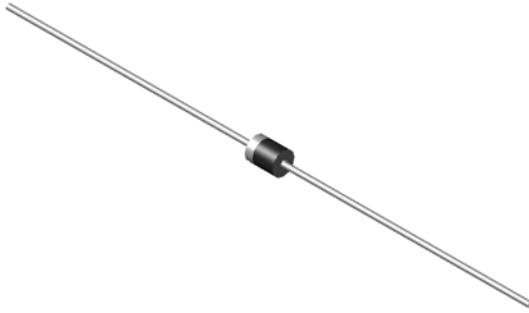


General Purpose Rectifier



Features

- High efficiency
- High current capability
- High reliability
- High surge current capability
- Low power loss
- Glass passivated chip junction
- Solder dip 275 °C max. 7 s, per JESD 22-B106

Mechanical Data

- **Package:** R-1
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, Halogen free
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Color band denotes cathode end

■ Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	1A1G	1A2G	1A3G	1A4G	1A5G	1A6G	1A7G
Device marking code			1A1G	1A2G	1A3G	1A4G	1A5G	1A6G	1A7G
Maximum Repetitive Peak Reverse Voltage	VRRM	V	50	100	200	400	600	800	1000
Maximum RMS Voltage	VRMS	V	35	70	140	280	420	560	700
Maximum DC blocking Voltage	VDC	V	50	100	200	400	600	800	1000
Average Forward Current @60Hz sine wave, Resistance load, Ta =75°C	IF(AV)	A	1.0						
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, Tj=25°C	IFSM	A	30						
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C			60						
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode	I²t	A²s	3.735						
Typical junction capacitance @Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	Cj	pF	6						
Storage Temperature	Tstg	°C	-55 ~ +150						
Junction Temperature	Tj	°C	-55 ~ +150						

■ Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	1A1G	1A2G	1A3G	1A4G	1A5G	1A6G	1A7G
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=1.0A	1.1						
Maximum DC reverse current at rated DC blocking voltage per diode	IR	µA	Tj=25°C	2.5						
			Tj=125°C	50						



1A1G THRU 1A7G

■ Thermal Characteristics (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	1A1G	1A2G	1A3G	1A4G	1A5G	1A6G	1A7G
Typical Thermal Resistance	R _{θJA}	°C/W	95						

■ Ordering Information (Example)

PREFERRED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
1A1G~1A7G	D1	Approximate 0.19	Approximate 5000	5000	50000	Tape
1A1G~1A7G	C1	Approximate 0.19	Approximate 1000	1000	50000	Bulk

■ Characteristics (Typical)

FIG.1: I_o-T_a Curve

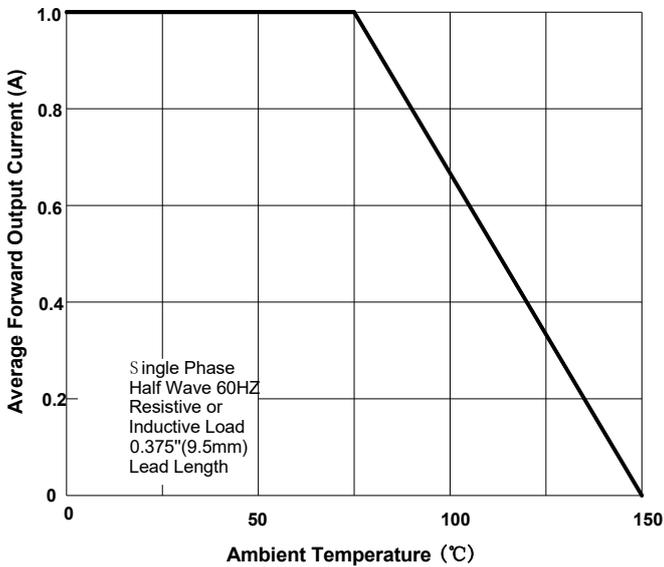


FIG.2: Surge Forward Current Capability

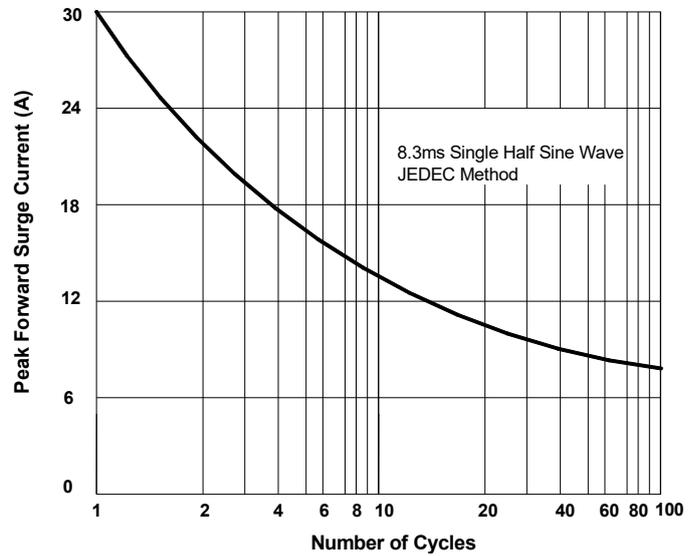


FIG.3: Typical Forward Voltage

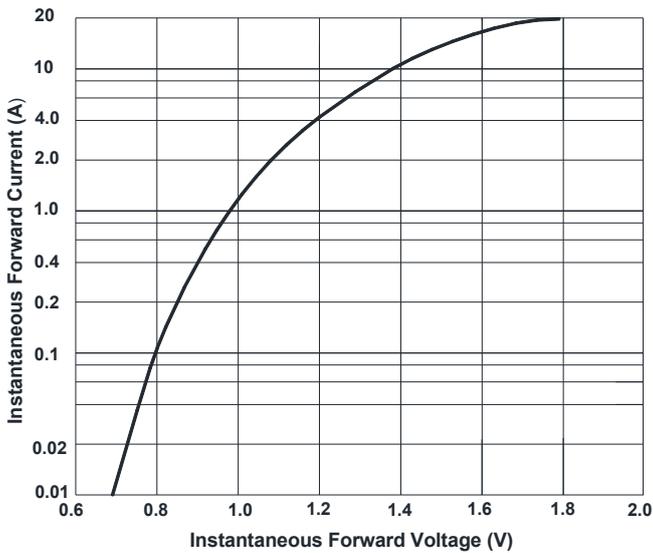
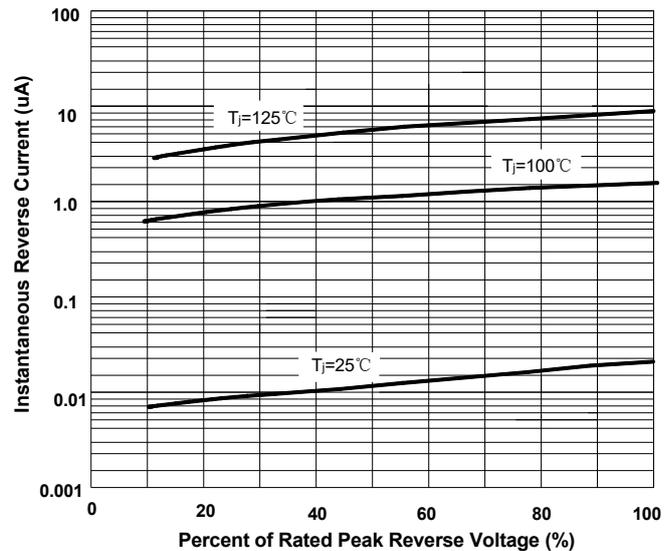


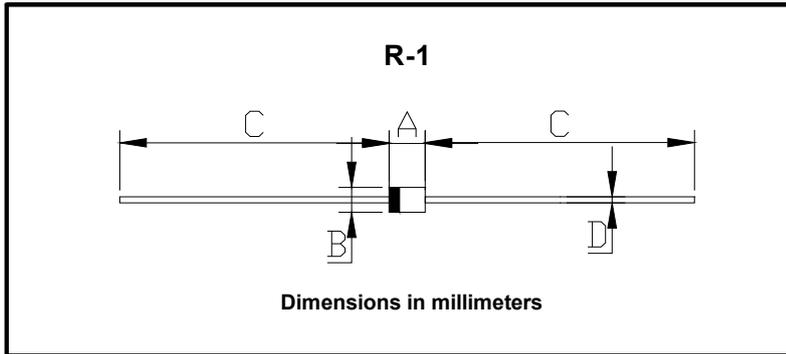
FIG.4: Typical Reverse Characteristics





1A1G THRU 1A7G

■ Outline Dimensions



R-1		
Dim	Min	Max
A	3.00	3.30
B	2.00	2.70
C	25.4	/
D	0.53	0.64



1A1G THRU 1A7G

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