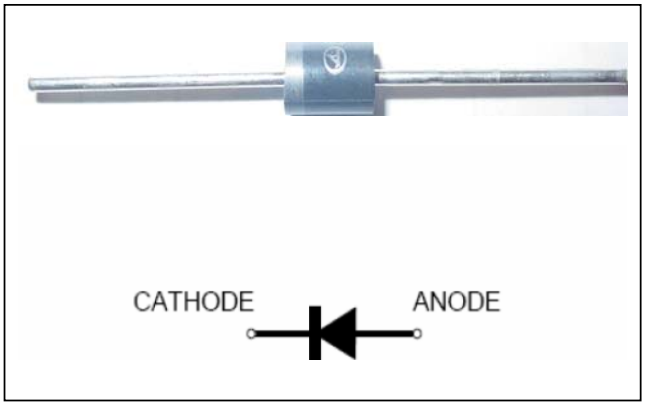
1A1A thru 1A7A

General Purpose Plastic Rectifiers
Reverse Voltage 50 to 1000V Forward Current 1.0A

Feature

* Plastic package has Underwriters Laboratories Flammability Classification 94V-0
* Construction utilizes void-free molded plastic technique
* Low reverse leakage
* High forward surge capability
* Glass passivated chip
* High temperature soldering guaranteed: 260°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension



We declare that the material of product compliance with ROHS requirements

Mechanical Data

Case: JEDEC R-1, molded plastic body
Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026
Polarity: Color band denotes cathode end
Mounting Position: Any
Weight: 0.0063 oz., 0.167 g
Handling precautin:None

1. Electrical Characteristic

Maximum & Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter Symbol	symbol	1A1A	1A2A	1A3A	1A4A	1A5A	1A6A	1A7A	Unit
device marking code		1A	2A	3A	4A	5A	6A	7A	
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	V
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current 0.375" (9.5mm) lead length at T_A = 75°C	IF(AV)	1.0							A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	25							A
Typical thermal resistance (Note 1)	RθJA	50							°C/W
Operating junction and storage temperature range	TJ, TSTG	–50 to +150							°C

Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter Symbol	symbol	1A1A	1A2A	1A3A	1A4A	1A5A	1A6A	1A7A	Unit
Maximum instantaneous forward voltage at 1.0A	V_F	1.10							V
Maximum DC reverse current TA = 25°C at rated DC blocking voltage TA = 100°C	IR	5.0 50							μA
Typical junction capacitance at 4.0V, 1MHz	CJ	15							PF

NOTES:
1. Thermal resistance from junction to ambient at 0.375” (9.5mm) lead length, P.C.B. mounted

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2. Characteristic Curves (TA = 25°C unless otherwise noted)

Fig. 1 – Forward Current Derating Curve

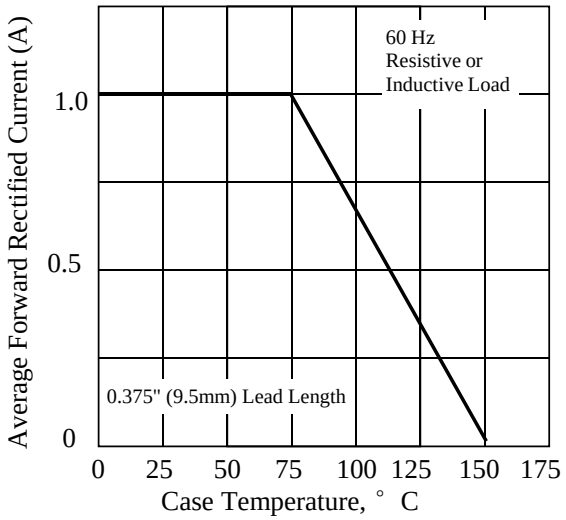


Fig. 2 – Maximum Non-repetitive Peak Forward Surge Current

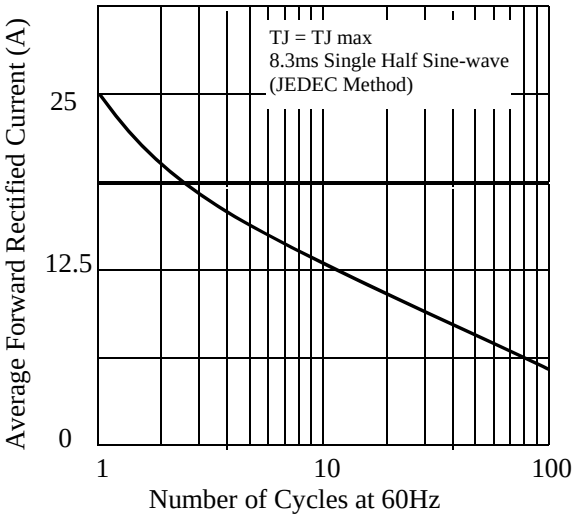


Fig 3. – Typical Instantaneous Forward Characteristics

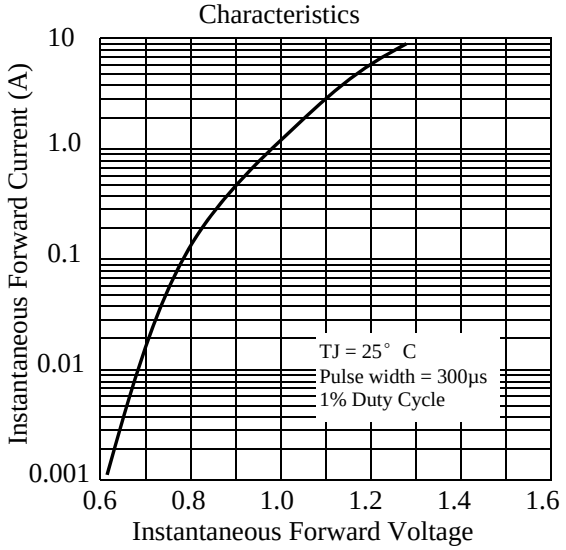


Fig 4. – Typical Reverse Characteristics

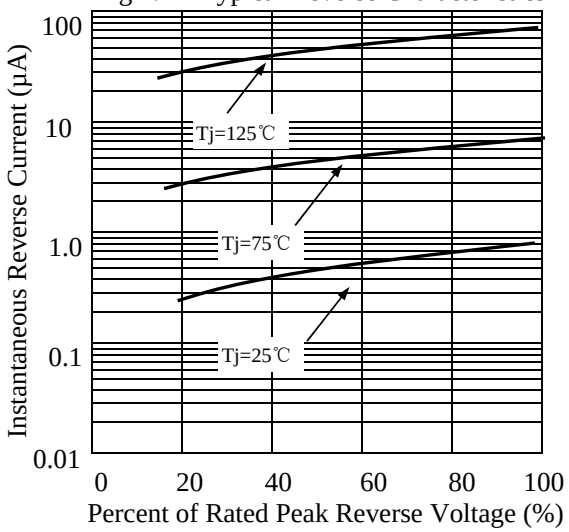


Fig 5. – typical transient thermal impedance

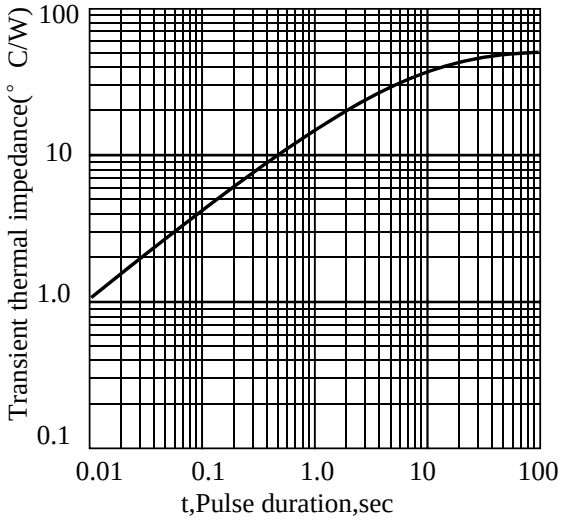
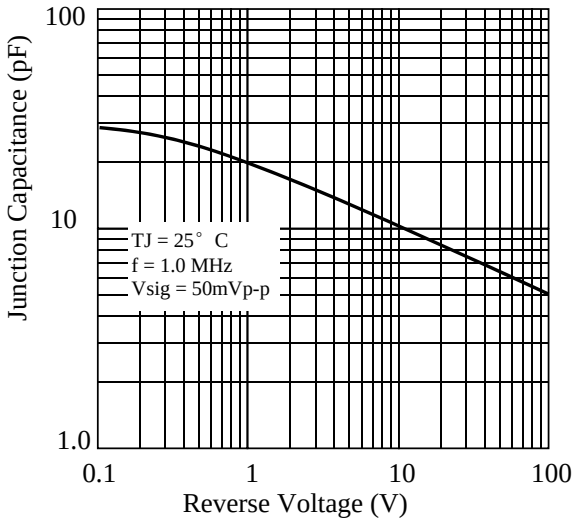


Fig 6. – Typical Junction Capacitance



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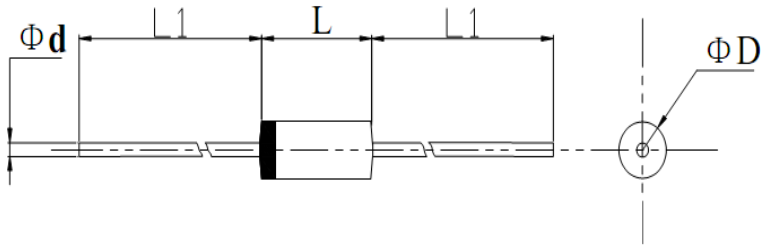
3. dimension:

Package outline



Dimensions					Note:
	inches		mm		R-1
	Min.	Max.	Min.	Max.	molded plastic case
L	0.106	0.126	2.7	3.2	The marking band indicates the
L1	0.787	-	20.0	-	cathode
ΦD	0.091	0.102	2.3	2.6	
Φd	0.021	0.025	0.55	0.65	

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4、版式次更新记录

版次	更新记录	更新作者	更新日期
1	第一版	谭志伟	2018.02.28

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