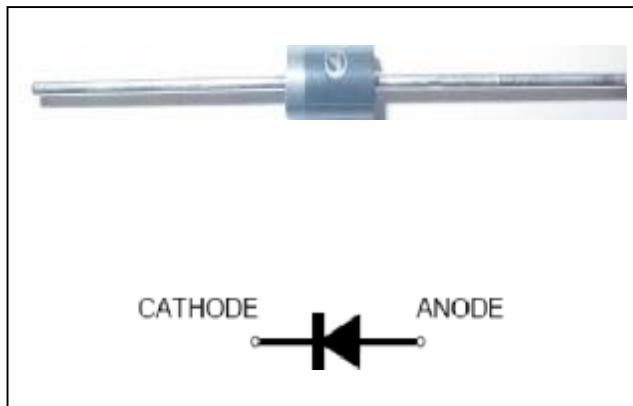


EG01CS

**Fast Recovery Rectifiers
Reverse Voltage 1000V Forward Current 0.5A**

Feature & Dimensions

- * Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- * High temperature metallurgically bonded construction
- * Diffused junction
- * Capable of meeting environmental standards of MIL-S-19500
- * 1.0 A operation at TA=55°C with no thermal runaway
- * For use in high frequency rectifier circuits
- * Fast switching for high efficiency
- * Typical IR less than 1.0µA
- * High temperature soldering guaranteed:
350°C/10 seconds
- * 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension



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: 0.0084 oz., 0.214 g

Handling Precaution: None

We declare that the material of product compliance
with ROHS requirements

1. Electrical Characteristic

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

Parameter Symbol	symbol	EG01CS	Unit
device marking code		EG01CS	
Maximum repetitive peak reverse voltage	V _{RRM}	1000	V
Maximum RMS voltage	V _{RMS}	700	V
Maximum DC blocking voltage	V _{DC}	1000	V
Maximum average forward rectified current 0.375" (9.5mm) lead length at T _A = 55°C	IF(AV)	0.5	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	25	A
Maximum full load reverse current, full cycle average, 0.375"(9.5mm) lead lengths at T _A = 55°C	IR(AV)	100	µA
Typical thermal resistance (Note 2)	R _{θJA}	50	°C/W
Operating junction and storage temperature range	T _J , T _{TSG}	-55 to +150	°C

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

Parameter Symbol	symbol	EG01CS	Unit
Maximum instantaneous forward voltage at 1.0A	V _F	3.3	V
Maximum DC reverse current TA = 25°C at rated DC blocking voltage TA = 100°C	IR	5.0 200	µA
Typical reverse recovery time (Note 1)	trr	75	ns
Typical junction capacitance at 4.0V, 1MHz	C _J	15	PF

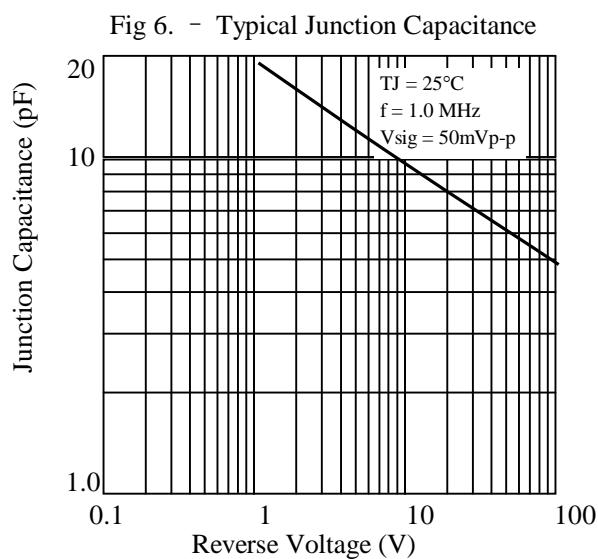
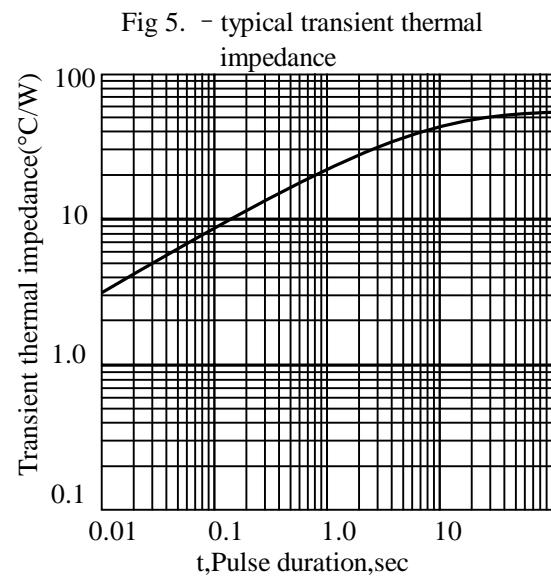
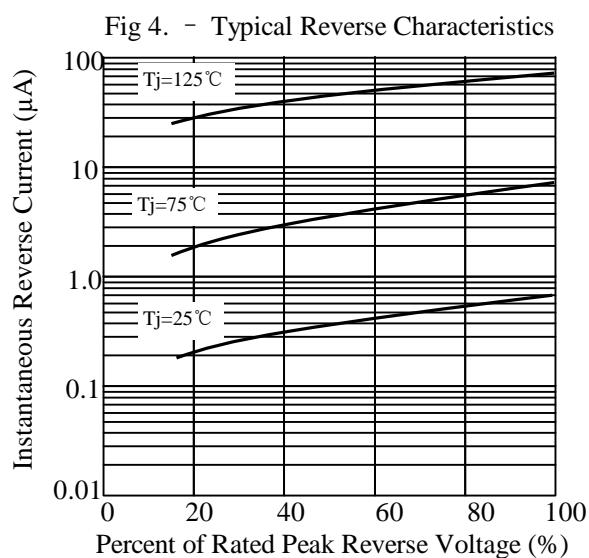
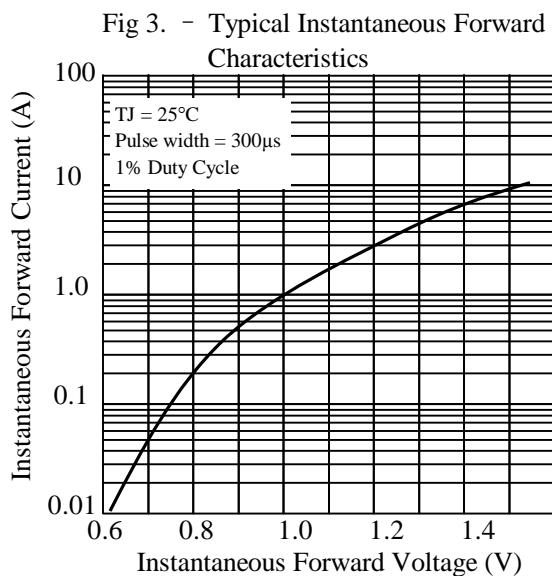
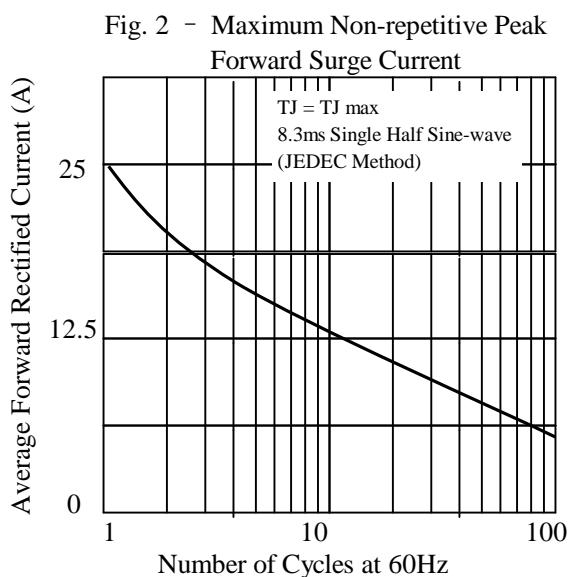
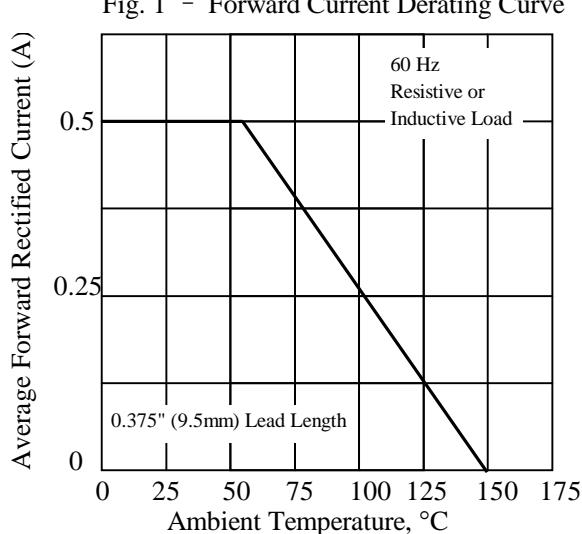
NOTES:

1. IF = 0.5A, IR = 1.0A, IRR = 0.25A

2. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

EG01CS

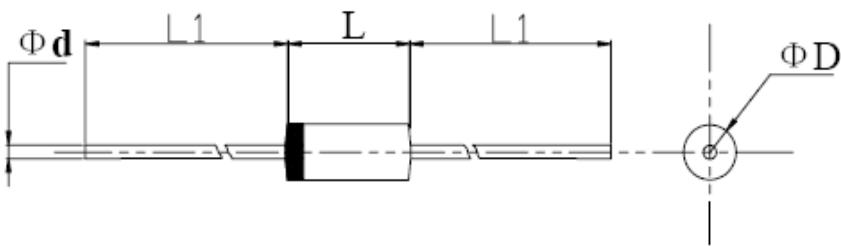
2. Characteristic Curves (TA = 25°C unless otherwise noted)



EG01CS

3. dimension:

Package outline



Dimensions					Note: A-405 molded plastic case The marking band indicates the cathode
	inches		mm		
	Min.	Max.	Min.	Max.	
L	0.166	0.205	4.2	5.2	
L1	1.0	-	25.4	-	
ΦD	0.080	0.107	2.0	2.7	
Φd	0.021	0.025	0.55	0.65	



LESHAN RADIO COMPANY, LTD.

EG01CS

5、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	周杰	2010.06.04