

GSDE2*AF Series

Fast Recovery Diode

Product Description

Reverse Voltage 200V to 600V.
Forward Current 2.0A



Features

- 35ns Max Reverse Recovery Time
- RoHS Compliant and Halogen Free

Mechanical Data

- SMA (DO-214AC) Package
- Polarity: Color Band denotes Cathode End

Package and Pin Assignment

SMA (DO-214AC)		Equivalent Circuit
		
Pin	Description	
1	Anode	
2	Cathode	

Ordering and Marking Information

Ordering Information			
Part Number	V _{RRM}	Marking Code	Quantity/Reel
GSDE2DAF	200	ER2D	5000 PCS
GSDE2GAF	400	ER2G	5000 PCS
GSDE2JAF	600	ER2J	5000 PCS
* GSDE2DAF can be selected if required V _{RRM} of 50V, 100V and 150V.			
GSDE2 1 A F			
- Product Code: GSDE2	- Voltage Code: 1 is D. G or J stands for Maximum repetitive peak reverse voltage.	- Package Code: A for SMA (DO-214AC) Package	
- Green Level: F for RoHS Compliant and Halogen Free			

Marking Information

ER2 **1**

- **Product Code:**

ER2

- **Voltage Code:**

1 is D. G or J stands for
Maximum repetitive peak
reverse voltage.

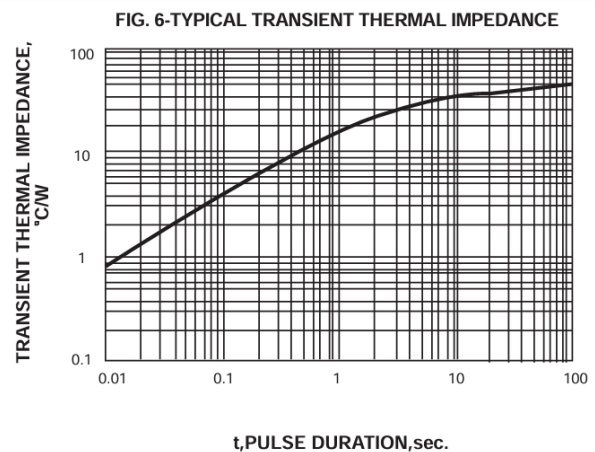
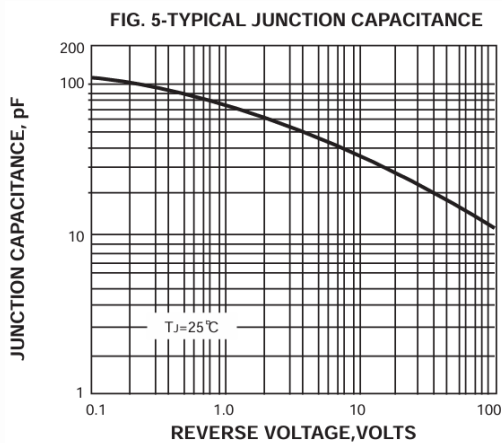
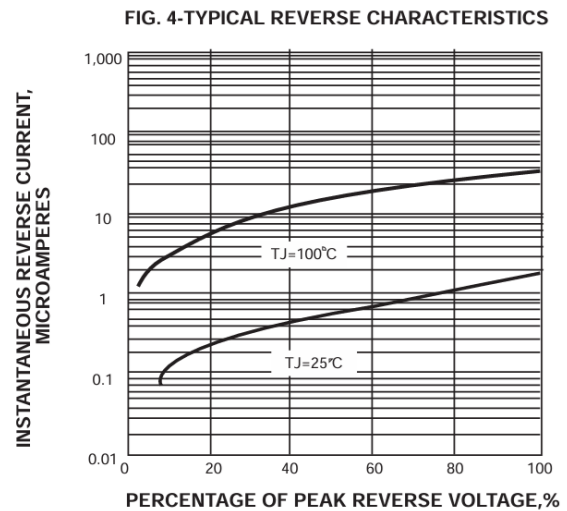
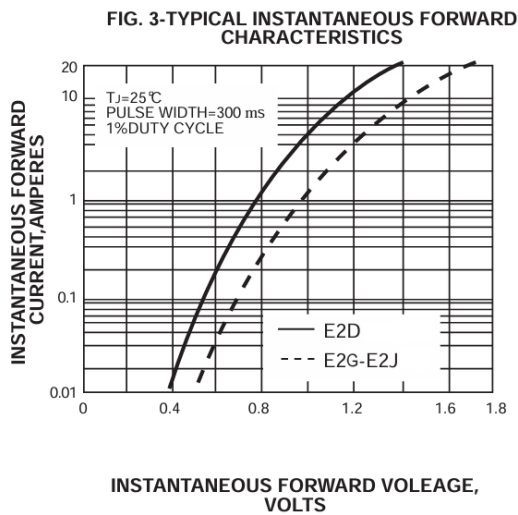
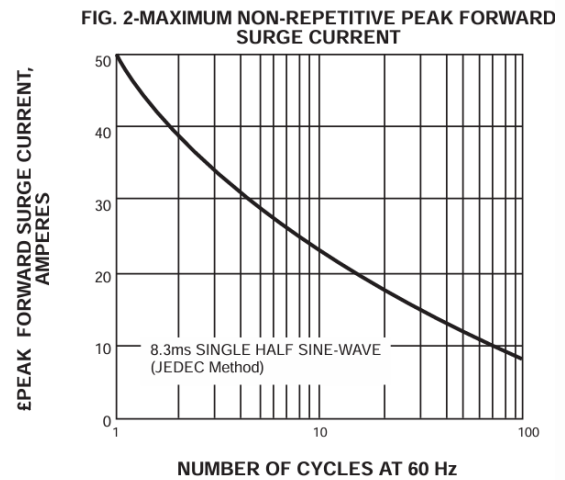
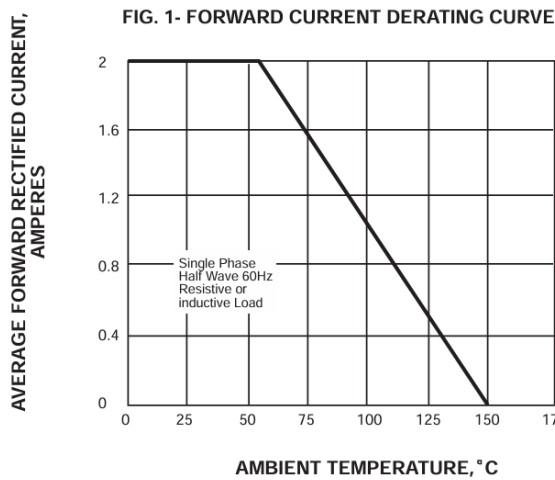
Electrical Characteristics (Ratings at 25°C Ambient Temperature Unless Otherwise Specified.)

Symbol	Conditions		E2D	E2G	E2J	Unit
V _{RRM}	Maximum Recurrent Peak Reverse Voltage		200	400	600	V
V _{RMS}	Maximum RMS Voltage		140	280	420	V
V _{DC}	Maximum DC Blocking Voltage		200	400	600	V
I _{F(AV)}	Maximum Average Forward Rectified Current		2			A
I _{FSM}	Peak Forward Surge Current (8.3ms Single Half Sinewave)		50			A
V _F	Maximum Forward Voltage at 2.0A		0.95	1.25	1.7	V
I _R	Maximum Reverse Leakage Current at rated V _R	T _A = 25°C	5			μA
		T _A = 100°C	50			μA
t _{rr}	Maximum reverse recovery time ⁽¹⁾		35			Ns
C _J	Typical Junction Capacitance ⁽²⁾		60			pF
R _{θJA}	Typical Thermal Resistance ⁽³⁾		40			°C/W
T _J	Operating Junction Temperature Range		-55 to +150			°C
T _{STG}	Storage Temperature Range		-55 to +150			°C

NOTES:

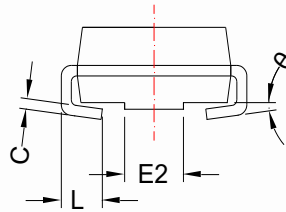
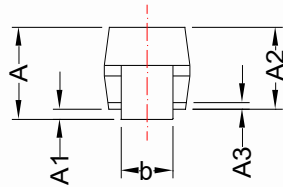
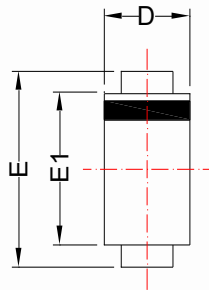
1. Measured with $I_F=0.5A$, $I_R=1A$, $I_{rr}=0.25A$.
2. Measured at 1MHz and applied reverse voltage of 4.0V_{DC}
3. Mounted with 0.2 x 0.2" (5.0 x 5.0mm) Copper Pad Areas

Typical Characteristics (Ratings at 25°C Ambient Temperature Unless Otherwise Specified.)

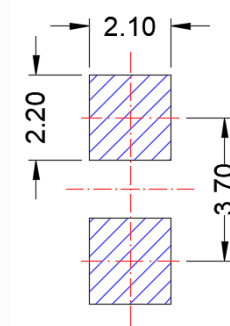


SMA (DO-214AC)

Package Dimension



Recommended Land Pattern



(Unit: mm)

Dimensions				
Symbol	Millimeters		Inches	
	Min	Max	Min	Max
A	1.70	2.90	0.067	0.114
A1	1.70	---	0.067	---
A2	0.00	0.20	0.000	0.008
A3	0.05	0.30	0.002	0.012
b	1.20	1.70	0.047	0.067
c	0.15	0.41	0.006	0.016
D	2.18	2.95	0.086	0.116
E	4.70	5.60	0.185	0.220
E1	3.90	4.70	0.154	0.185
E2	1.40	1.90	0.055	0.075
L	0.75	1.6	0.030	0.063
θ	0°	8°	0°	8°





Note:



Dimensions are exclusive of Burrs, Mold Flash & Tie Bar extrusions.

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