Bridge Rectifiers

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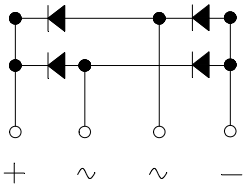


Features

- UL recognition, file #E230084
- Glass passivated chip junction
- Ideal for printed circuit boards
- High surge current capability
- Solder dip 275 °C max. 7 s, per JESD 22-B106

Typical Applications

General purpose use in AC/DC bridge full wave rectification for switching power supply, home appliances, office equipment, industrial automation applications.

Mechanical Data

- **Package**: RS
  Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- **Terminals**: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** As marked on body

■ Maximum Ratings (T_a=25℃ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	RS201	RS202	RS203	RS204	RS205	RS206	RS207
Device marking code			RS201	RS202	RS203	RS204	RS205	RS206	RS207
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	V	50	100	200	400	600	800	1000
Maximum RMS Voltage	V_{RMS}	V	35	70	140	280	420	560	700
Maximum DC blocking Voltage	V_{DC}	V	50	100	200	400	600	800	1000
Average rectified output current @60Hz sine wave, R-load, T_a =50℃	I_O	A	2						
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25℃	I_{FSM}	A	30						
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25℃			60						
Current Squared Time @1ms≤t≤8.3ms,Tj=25℃,Rating of per diode	I^2t	A^2S	3.74						
Storage Temperature	T_{stg}	℃	-55 ~ +150						
Junction Temperature	T_j	℃	-55 ~ +150						

■ Electrical Characteristics (T_a=25℃ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	RS201	RS202	RS203	RS204	RS205	RS206	RS207
Maximum instantaneous forward voltage drop per diode	V_F	V	I_{FM}=1.0A	1.0						
Maximum DC reverse current at rated DC blocking voltage per diode	I_R	μA	T_j =25℃	5						
			T_j =125℃	100						
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	12						

■ Thermal Characteristics (T_a=25℃ Unless otherwise specified)

PARAMETER		SYMBOL	UNIT	RS201	RS202	RS203	RS204	RS205	RS206	RS207
Typical Thermal Resistance	Between junction and ambient, Without heatsink	RθJ-A	℃/W	25.0						
	Between junction and case, Without heatsink	RθJ-C		7.5						

■ Ordering Information (Example)

PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
RS201 ~ RS207	A1	Approximate 2.76	50	50	5000	Paper Box

■ Characteristics (Typical)

FIG1:Io-Ta Curve

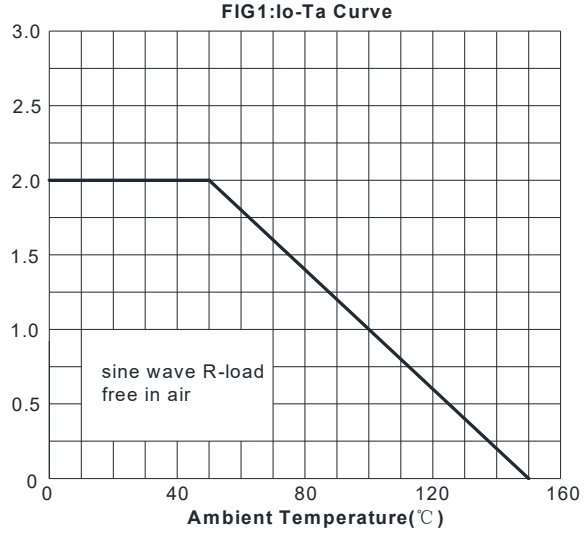


FIG2:Surge Forward Current Capability

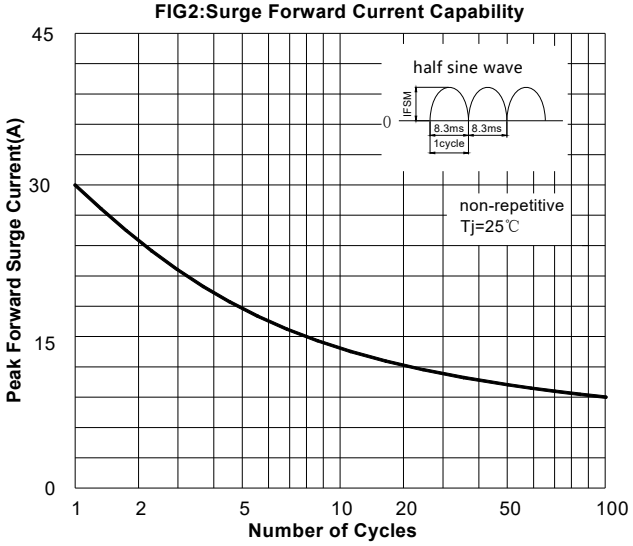


FIG3: Typical Forward Voltage

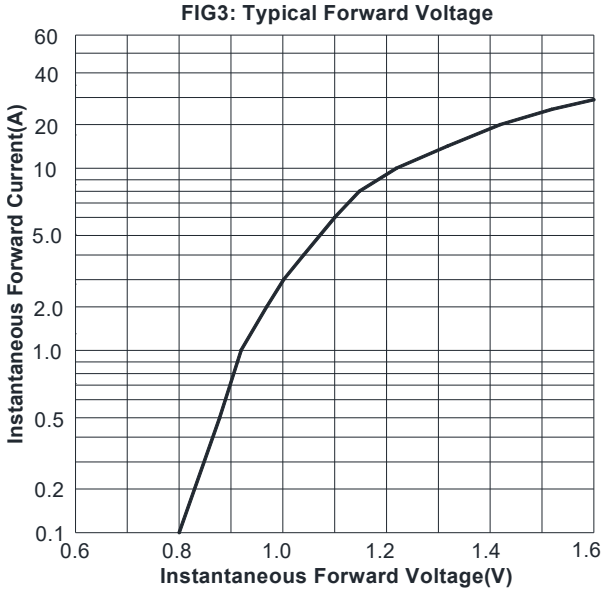
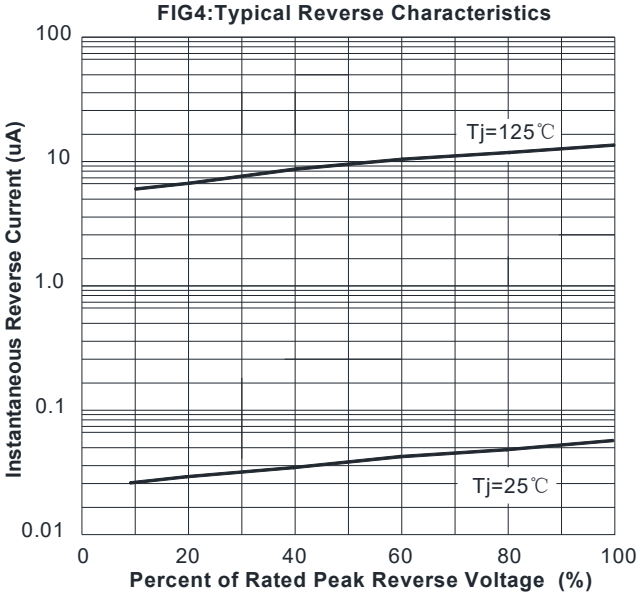
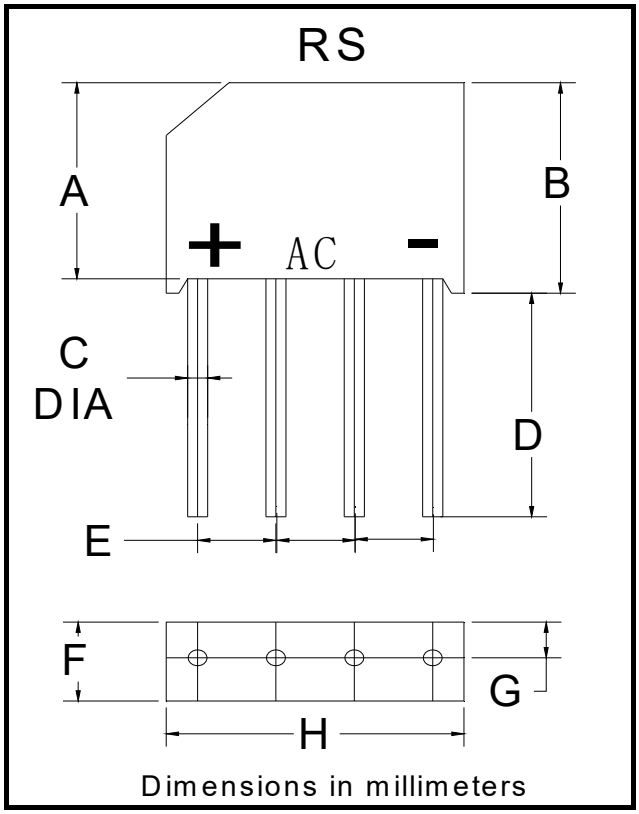


FIG4:Typical Reverse Characteristics



■ Outline Dimensions



RS		
Dim	Min	Max
A	12.5	14.5
B	14.0	16.0
C	0.68	0.88
D	16	/
E	2.8	4.8
F	5.4	7.4
G	2.7	3.7
H	17.0	18.0

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