

Descriptions

This is Surface Mount Fast Recovery Rectifiers, Reverse Voltage:50 to1000V, Forward Current:1.0A, SMA package.

Features

- Glass Passivated Chip Junction,
- Lead free in complywith EU RoHS 2011/65/EU directives,
- For surface mounted applications.
- HF product.

Applications

General purpose.

Equivalent Circuit

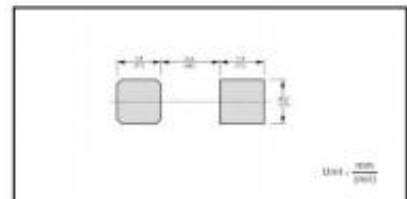


Pinning



PIN	DESCRIPTION
1	Cathode
2	Anode

The recommended mounting pad size



Marking

See Marking Instructions.

Absolute Maximum Ratings(Ta=25°C)

Parameter	Symbo	Rating							Unit
		RS1A	RS1B	RS1D	RS1G	RS1J	RS1K	RS1M	
Maximum Repetitive Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	Voc	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current	IF(AV)	1.0							A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load(JEDEC Method)	IFSM	30							A
Typical Junction Capacitance at VR=4V f=1MHz	C	15							pF
Typical Thermal Resistance 1	ReJA	75							°CW
Operating and Storage Temperature Range	Tj,Tstg	-55~+150							°C

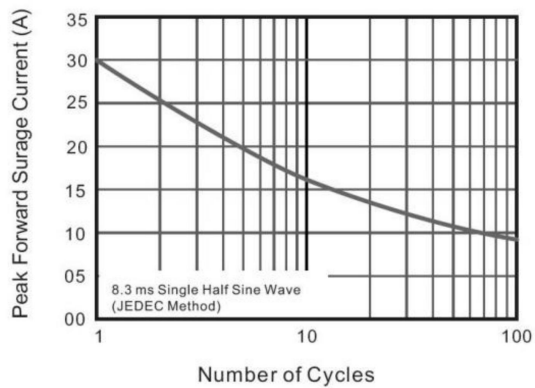
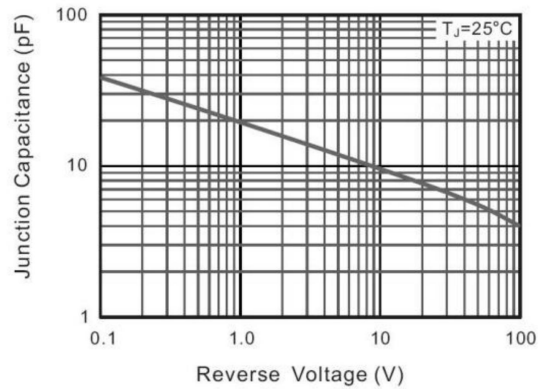
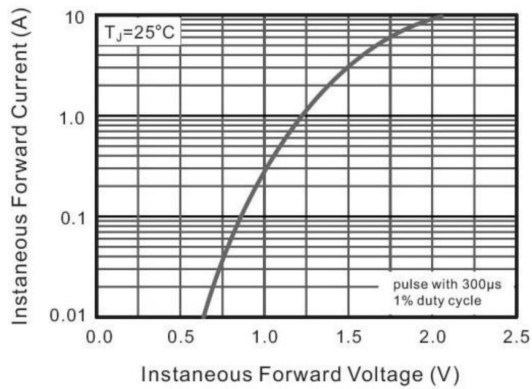
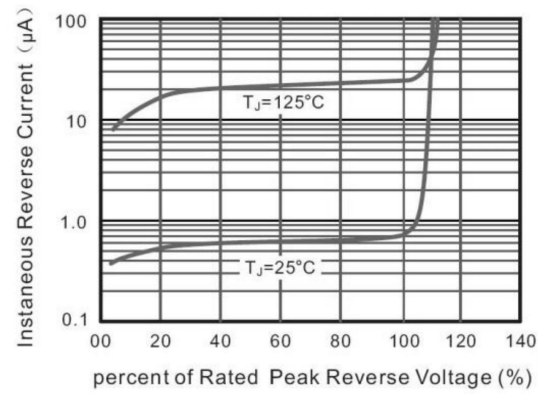
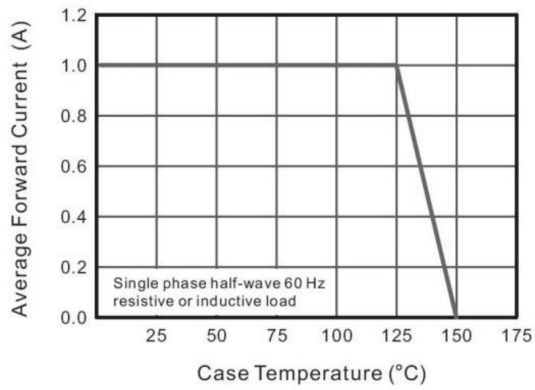
Note:

1)P.C.B.mounted with 1.0×1.0"(2.54X2.54cm)copper pad areas.

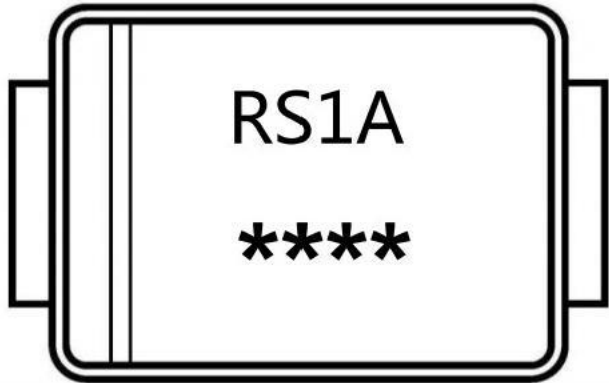
Electrical Characteristics(Ta=25°C)

Parameter	Symbol	Test Conditions	Rating						Unit
			RS1A	RS1B	RS1D	RS1G	RS1J	RS1K	
Maximum Instantaneous Forward Voltage	VF	IF=1.0A	1.3						V
Maximum DC Reverse Current at Rated DC Blocking Voltage	IR	Ta=25°C	5.0						μA
		Ta=125°C	50						μA
Maximum Reverse Recovery Time	trr	IF=0.5A IR=1A L=0.25A	150			250	500		ns

Electrical Characteristic Curve



Marking Instructions



Type number	Marking code
RS1A	RS1A
RS1B	RS1B
RS1D	RS1D
RS1G	RS1G
RS1J	RS1J
RS1K	RS1K
RS1M	RS1M

Note:

RS1A: Product Type Code

****: Lot No.Code ,The 1st*means:YM Code ,The last 3*means:little Lot No Code

Packaging SPEC

REEL

PackageType	Units					Dimension(unit:mm ³)		
	Units/Reel	Reels/nner Box	Units/nner Box	InnerBoxes/OuterBox	Units/Outer Box	Reel	Inner Box	Outer Box
SMA	5000	2	10000	7	70000	13*×12	336X336X40	380X335X366

Package Outline Dimensions

SMA

