DO-214AC/SMA

RŏHS



Reverse Voltage - 50 to 1000 Volts Forward Current - 2.0 Ampere

SURFACE MOUNT FAST RECOVERY RECTIFIER

Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Idea for printed circuit board
- ◆ Open Junction chip
- Low reverse leakage
- High forward surge current capability
- ◆ High temperature soldering guaranteed: 250°C / 10 seconds at terminals
- ◆ Glass passivated chip junction

0.067 (1.70) 0.039 (1.00) 0.094(2.40) 0.094(2.40) 0.057(3.99) 0.060(1.52) 0.060(1.52) 0.060(1.52) 0.030(0.76) 0.022(5.66) 0.1594(4.93)

Dimensions in inches and (millimeters)

Mechanical Data

Case: JEDEC DO-214AC/SMA Molded plastic body

Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

Polarity: Polarity symbol marking on body

Mounting Position: Any

Weight: 0.002 ounce, 0.055 grams

Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Parameter Marking Code		RS2A	RS2B	RS2D	RS2G	RS2J	RS2K	RS2M	UNITS
		MDD RS2A	MDD RS2B	MDD RS2D	MDD RS2G	MDD RS2J	MDD RS2K	MDD RS2M	
Maximum repetitive peak reverse voltage	VRMM	50	100	200	400	600	800	1000	V
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V
Maximum average forward rectified current at TL=90 ℃	I(AV)				2.0			•	А
Peak forward surge current									
8.3ms single half sine-wave	Ігѕм				50				Α
superimposed onrated load (JEDEC Method)									
Maximum instantaneous forward voltage at 2.0A	VF				1.30				V
Maximum DC reverse current Ta=25℃ at rated DC blocking voltage Ta=125℃	lr				5.0 100.0				μA
Maximum reverse recovery time (NOTE 1)	trr		150			250	į	500	ns
Typical junction capacitance (NOTE 2)	Сл				15.0				pF
Typical thermal resistance (NOTE 3)	Rθja				65.0				°C/W
Operating junction and storage temperature range	ТЈ,Тѕтс			-!	55 to +15	0			$^{\circ}\mathbb{C}$

Note:1.Reverse recovery condition IF=0.5A,IR=1.0A,Irr=0.25A

2.P.C.B. mounted with 2.0x2.0"(5.0x5.0cm) copper pad areas

3. The typical data above is for reference only.



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Ratings And Characteristic Curves

Fig.1 Forward Current Derating Curve

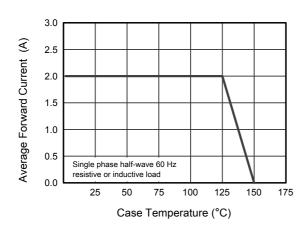


Fig.2 Typical Reverse Characteristics

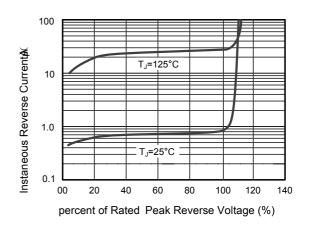


Fig.3 Typical Instaneous Forward Characteristics

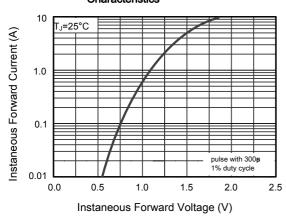


Fig.4 Typical Junction Capacitance

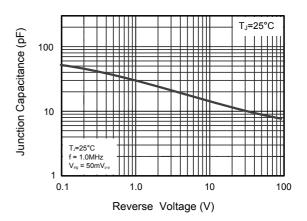
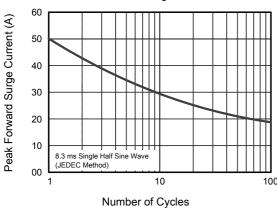


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



The curve above is for reference only.

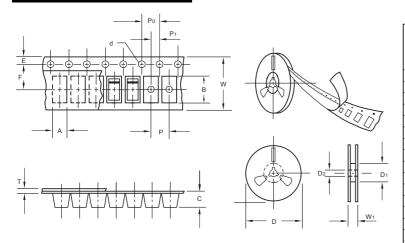


RS2A THRU RS2M

unit:mm

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Packing information



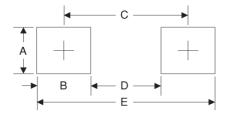
ltem	Symbol	Tolerance	SMA
Carrier width	Α	0.1	2.80
Carrier length	В	0.1	5.33
Carrier depth	С	0.1	2.36
Sprocket hole	d	0.05	1.50
13" Reel outside diameter	D	2.0	330.00
13" Reel inner diameter	D1	min	50.00
7" Reel outside diameter	D	2.0	178.00
7" Reel inner diameter	D1	min	62.00
Feed hole diameter	D2	0.5	13.00
Sprocket hole position	E	0.1	1.75
Punch hole position	F	0.1	5.50
Punch hole pitch	P	0.1	4.00
Sprocket hole pitch	Po	0.1	4.00
Embossment center	P1	0.1	2.00
Overall tape thickness	T	0.1	0.28
Tape width	W	0.3	12.00
Reel width	W1	1.0	18.00

Note: Devices are packed in accordance with EIA standar RS-481-A and specifications listed above.

Reel packing

PACKAGE	REEL SIZE	REEL (pcs)	COMPONENT SPACING (m/m)	BOX (pcs)	INNER BOX (m/m)	REEL DIA, (m/m)	CARTON SIZE (m/m)	CARTON (pcs)	APPROX. GROSS WEIGHT (kg)
SMA	7"	2,000	4.0	4,000	183*155*183	178	382*356*392	160,000	16.0
SMA	11"	5,000	4.0	10,000	290*290*38	330	310*310*360	80,000	11.0
SMA	13"	7,500	4.0	15,000	335*335*38	330	350*330*360	120,000	14.5

Suggested Pad Layout



Symbol	Unit (mm)	Unit (inch)
Α	1.68	0.066
В	1.52	0.060
С	3.90	0.154
D	2.41	0.095
Е	5.45	0.215

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