

RS2AA THRU RS2MA

2.0AMPS. FAST RECOVERY SURFACE MOUNT RECTIFIERS

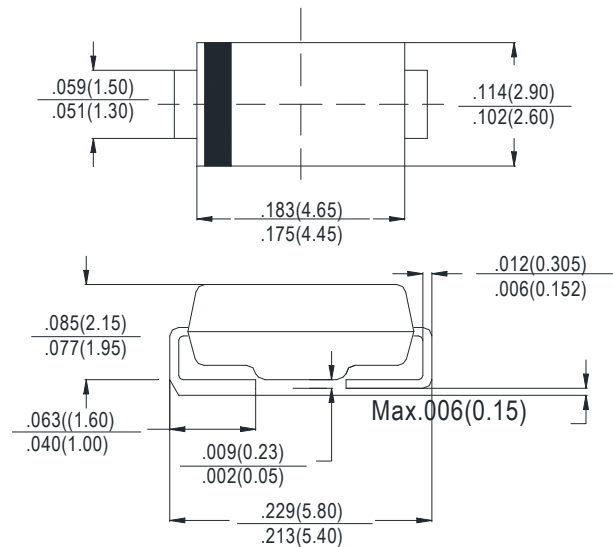
FEATURE

- . Fast switching
- . High current capability
- . Low forward voltage drop
- . Low power loss, high efficiency
- . High surge capability
- . High temperature soldering guaranteed:
260°C/10 seconds at terminals.
- . For surface mounted application.
- . Easy pick and place.

MECHANICAL DATA

- . Case: Molded plastic
- . Epoxy: UL94V-0 rate flame retardant
- . Lead: MIL-STD- 202E, Method 208 guaranteed
- . Polarity:Color band denotes cathode end
- . Packaging:12mm tape per EIA STD RS-481
- . Mounting position: Any

SMA (DO-214AC)



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, derate current by 20%

Type Number	SYM BOL	RS2 AA	RS2 BA	RS2 DA	RS2 GA	RS2 JA	RS2 KA	RS2 MA	units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	2.0							A
Peak Forward Surge Current 8.3ms single half sine- wave superimposed on rated load (JEDEC method)	I_{FSM}	60.0							A
Maximum Forward Voltage at 2.0A DC	V_F	1.3							V
Maximum DC Reverse Current @ $T_J=25^\circ\text{C}$ at rated DC blocking voltage @ $T_J=125^\circ\text{C}$	I_R	5.0 100.0							μA
Maximum Reverse Recovery Time (Note 1)	t_{rr}	150			250		500		nS
Typical Junction Capacitance (Note 2)	C_J	15			13				pF
Typical Thermal Resistance (Note 3)	$R_{(JA)}$	85							$^\circ\text{C}/\text{W}$
Storage Temperature	T_{STG}	-55 to +150							$^\circ\text{C}$
Operation Junction Temperature	T_J	-55 to +150							$^\circ\text{C}$

Note:

1. Test Conditions: $I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $I_{RR}=0.25\text{A}$
2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
3. Measured on P.C.Board with 0.2×0.2”(5.0×5.0mm)Copper Pad Areas.

RATING AND CHARACTERISTIC CURVES (RS2AA THRU RS2MA)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

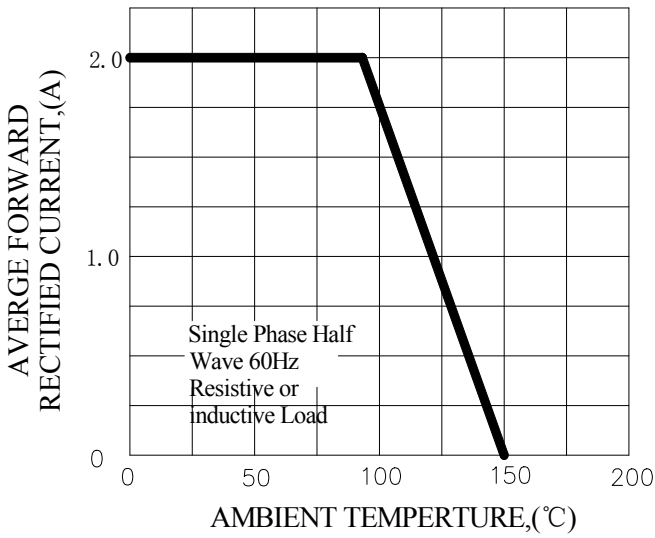


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

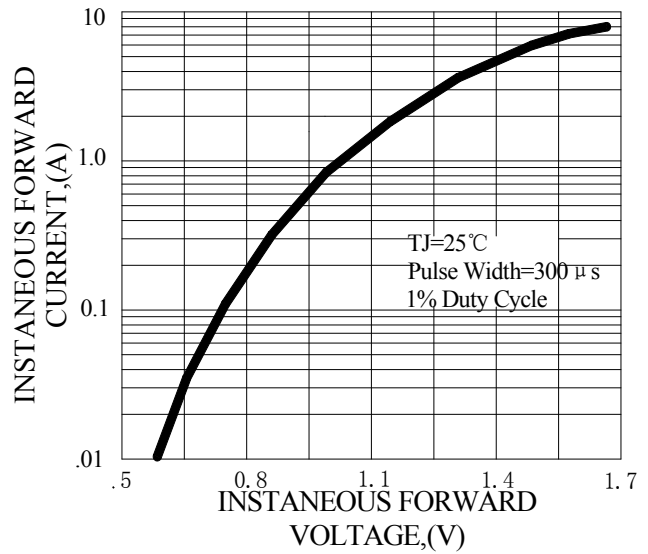


FIG.3-MAXIMUN NON-REPETITIVE FORWARD SURGE CURRENT

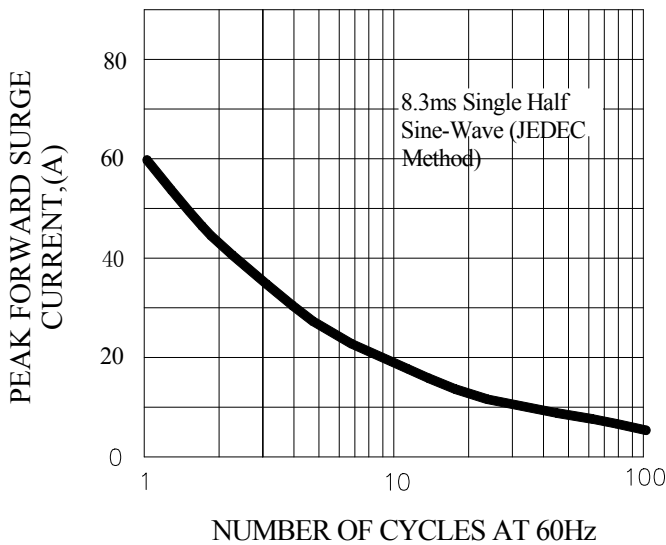


FIG.4-TYPICAL REVERSE CHARACTERISTICS

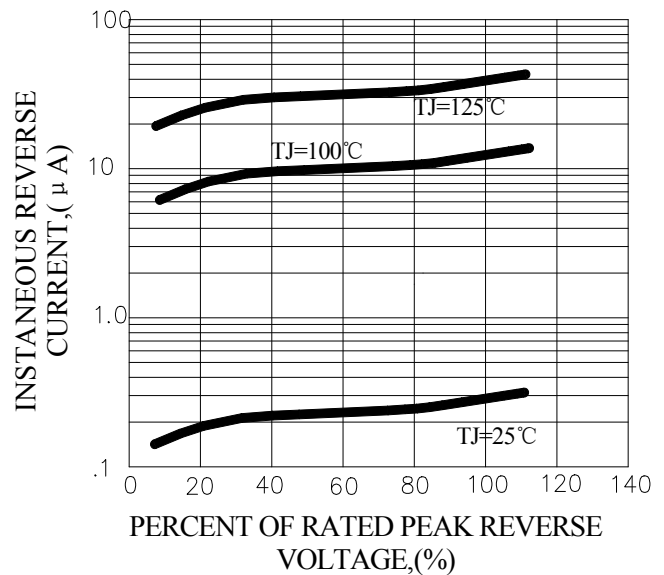
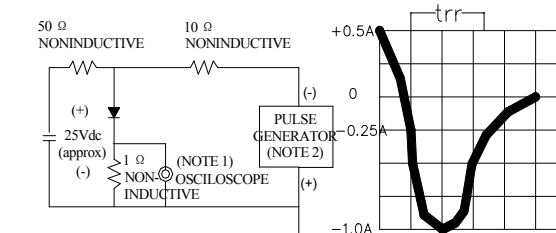


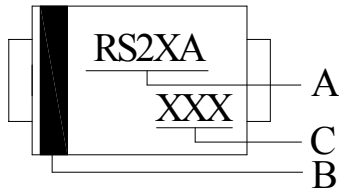
FIG.5-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



NOTES:1. Rise Time=7ns max, Input Impedance= 1 megohm.22pF.
2. Rise Time=10ns max, Source Impedance= 50 ohms.

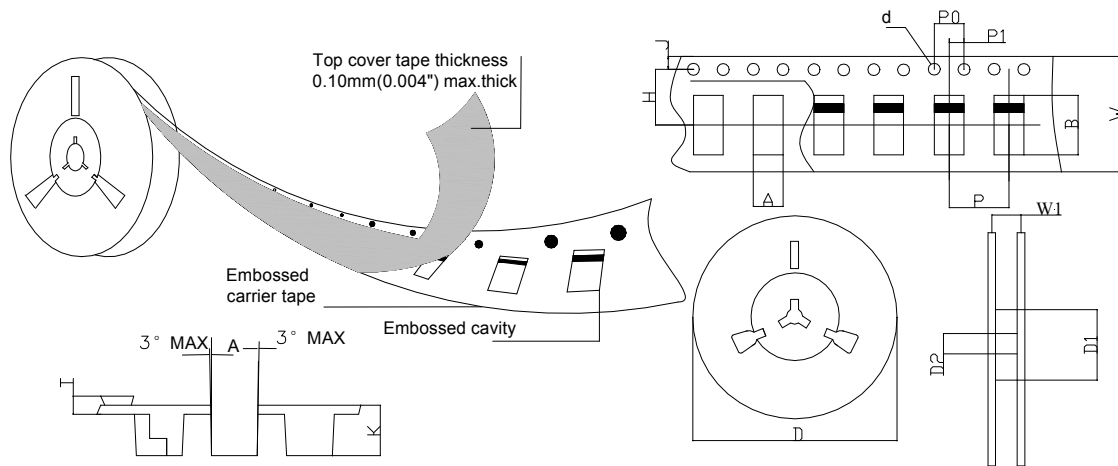
Marking and packaging illustration

1、Marking



SYMBOL	Explanation
A	Color Band Denotes Cathode
B	Product Name
C	Date Code

2、Packaging



SPECIFICATIONS mm(inch)		PACKAGE
SYMBOL		SMA(DO-214AC)
ITEM		
Carrier width	A	3.17(0.125)Max
Carrier length	B	5.81(0.229)Max
Sprocket hole	d	ø1.55(0.061)Typ
Reel outer diameter	D	330.0(13)Typ
Reel inner diameter	D1	50.0(1.969)Min
Feed hole diameter	D2	13.0(0.512)Typ
Sprocket hole position	J	1.75(0.069)Typ
Punch hole position	H	5.55(0.219)Typ
Carrier depth	K	2.42(0.095)Typ
Punch hole pitch	P	4.00(0.157)Typ
Sprocket hole pitch	P0	4.00(0.157)Typ
Embossment center	P1	2.00(0.079)Typ
Overall tape thickness	T	0.30(0.012)Typ
Tape width	W	12.0(0.472)Typ
Reel width	W1	12.4(0.488)Min

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [pingwei manufacturer](#):

Other Similar products are found below :

[KBJ1008](#) [SB5150L](#) [P6SMBJ68CA](#) [GBU410](#) [DB207S](#) [KBJ1006](#) [SB5P45](#) [KBJ1010](#) [GBL410](#) [GBU408](#) [PS40U60CT](#) [MBR20200CT](#) [D16-](#)
[DSS16](#) [MUR1040CT](#) [MBR30100CT](#) [MBR20200FCT](#) [MBR20100CT](#) [MBR20150FCT](#) [FR107](#) [GBU806](#) [HBRA10100BCT](#) [SB2200](#)
[MUR1620CTR](#) [SB5150](#) [GBU1006](#) [1N5404](#) [6A2](#) [PS10U100S](#) [GS1G](#) [GBJ2010](#) [GBU606](#) [16N65MF](#) [20N65NF](#) [HER303](#) [6A1](#) [1N5395](#)
[SF16](#) [18N50MF](#) [MBR30100FCT](#) [MUR1640FCT](#) [MBR30200FCT](#) [SS510B](#) [GBU406](#) [GBP206](#) [KBJ406](#) [100N10NF](#) [MBR10200FCT](#)
[GBU808](#) [SS3T10A](#) [PS40U100CT](#)