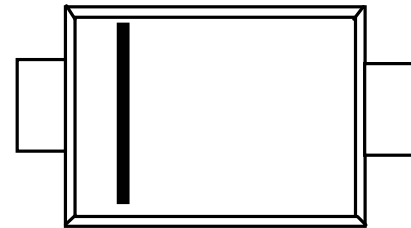


»Features

- Super fast switching time for high efficiency
- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Epitaxial construction



SMA(DO-214AC)

»General Description

- Case: molded plastic
- Polarity: Color band denotes cathode
- Package: SMA Plastic Package

» 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%

	SYMBOL	RS2A	RS2B	RS2D	RS2G	RS2J	RS2K	RS2M	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 at T _L = 110°C	I _(AV)	2.0							A
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated T _j = 125°C	I _{FSM}	30							A
Maximum Forward Voltage at 2.0A DC	V _F	1.3							V
Maximum Reverse Current at Rated DC Blocking Voltage	I _R	5.0 100							μ A
Maximum reverse recovery time (Note 1)	t _{rr}	150				250	500		ns
Typical Junction Capacitance (Note 2)	C _j	25				15			pF
Typical Thermal Resistance (Note 3)	R _{QJA}	25							°C/W
Operating Junction Temperature Range	T _j	- 55 to 150							°C
Storage Temperature Range	T _{STG}	- 55 to 150							°C

NOTES: 1.Measured with I_F=0.5A, I_R=1A, I_{RR}=0.25A

2.Measured at 1.0 MHz and applied reverse voltage of 4.0V DC

»Typical Performance Characteristics ((T_J = 25 °C, unless otherwise noted))

FIG. 1 – FORWARD CURRENT DERATING CURVE

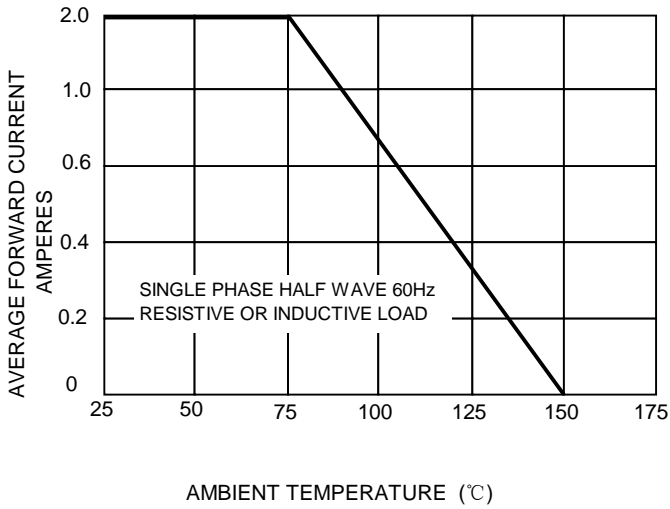


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

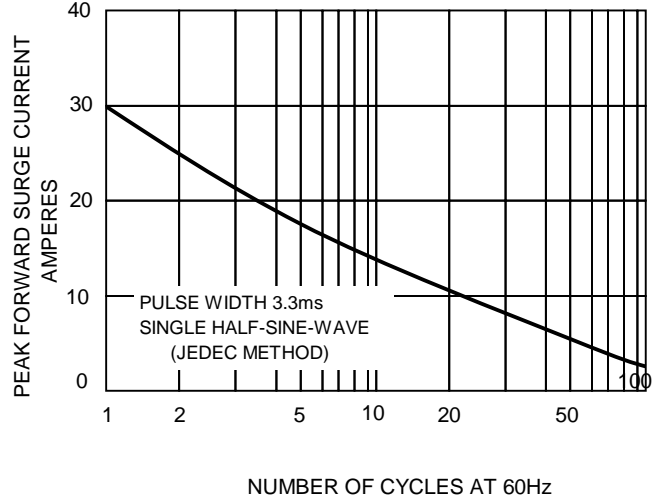


FIG.3 – TYPICAL JUNCTION CAPACITANCE

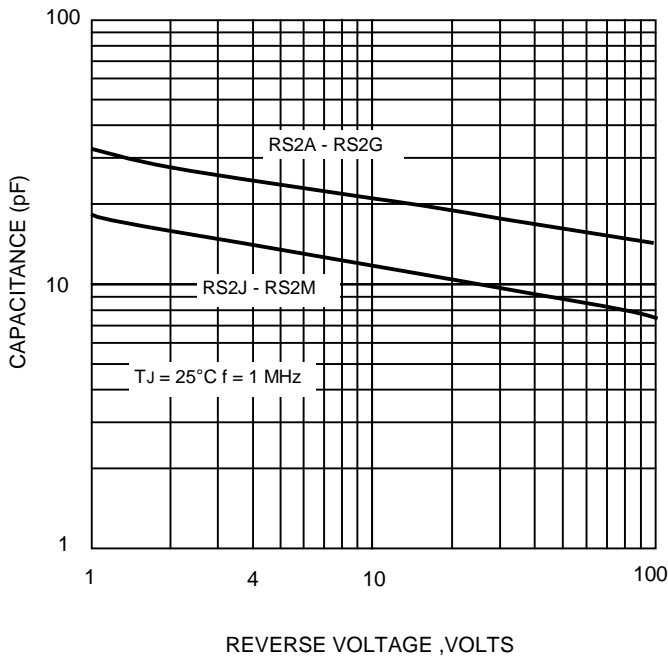
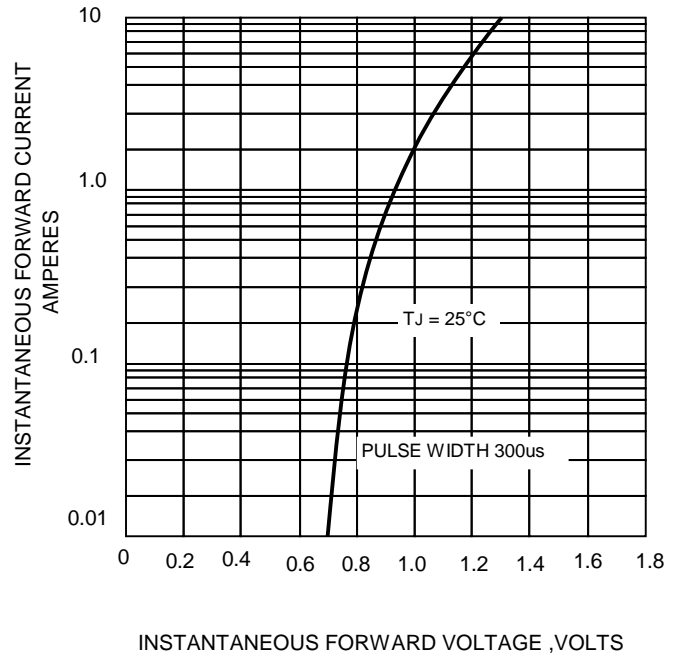
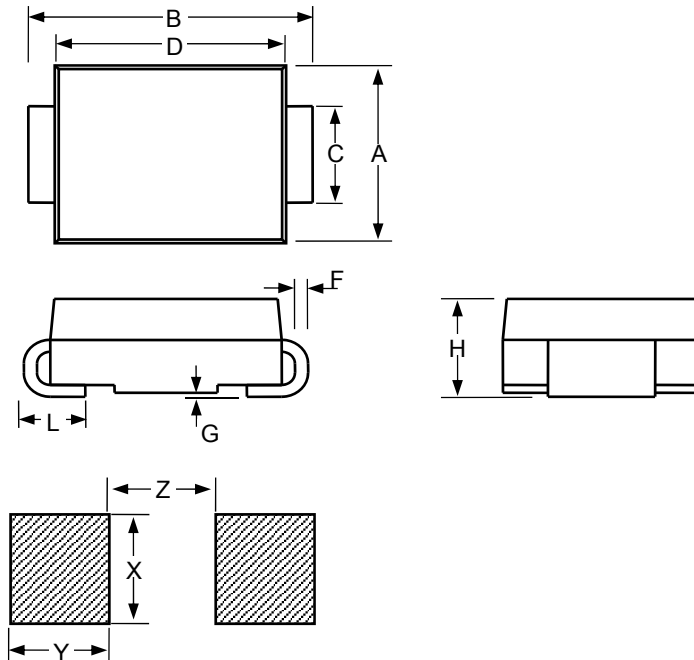


FIG.4-TYPICAL FORWARD CHARACTERISTICS



»Package Information

SMA



SMA						
Dimension	Inches			Millimeters		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.098		0.114	2.5		2.9
B	0.194		0.223	4.93		5.66
C	0.051		0.067	1.3		1.7
D	0.157		0.181	3.99		4.6
F	0.006		0.012	0.152		0.305
G	-		0.008	-		0.203
H	0.078		0.095	1.98		2.42
L	0.03		0.06	0.76		1.52
X		0.085			2.16	
Y		0.07			1.78	
Z		0.079			2	

»Ordering information

Part Number	RS2A	RS2B	RS2D	RS2G	RS2J	RS2K	RS2M
Marking	RS2A	RS2B	RS2D	RS2G	RS2J	RS2K	RS2M
Base qty	5K	5K	5K	5K	5K	5K	5K

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