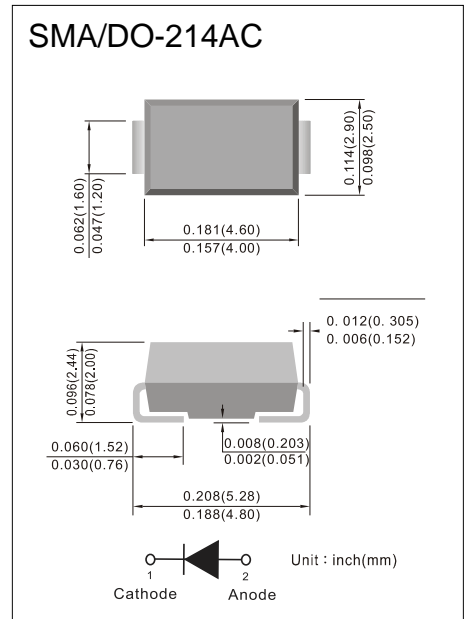


■ Features

- Glass passivated junction chip
- Ideal for automated placement
- Fast switching for high efficiency
- Comply with RoHS standard, halogen-free

■ Mechanical Data

- package:SMA/DO-214AC
- Polarity: Indicated by cathode band
- Epoxy: UL 94V-0 rate flame retardant
- Mounting Position : Any



■ Absolute Maximum Ratings($T_A=25^{\circ}\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	RS2D	RS2G	RS2J	RS2K	RS2M	UNIT
Repetitive peak reverse voltage	V_{RRM}	200	400	600	800	1000	V
Reverse voltage, total rms value	$V_{R(RMS)}$	140	280	420	560	700	V
DC blocking voltage	V_{DC}	200	400	600	800	1000	V
Forward current	I_F	2					A
Surge peak forward current single half sine-wave superimposed on rated load per diode	8.3 ms at $T_A=25^{\circ}\text{C}$	50					A
	1.0 ms at $T_A=25^{\circ}\text{C}$	124					A
Junction temperature	T_J	-55 to +150					$^{\circ}\text{C}$
Storage temperature	T_{STG}	-55 to +150					$^{\circ}\text{C}$

■ Thermal Performance($T_A=25^{\circ}\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	TYP	UNIT
Junction-to-lead thermal resistance per diode	$R_{\theta JL}$	14	$^{\circ}\text{C}/\text{W}$
Junction-to-ambient thermal resistance per diode	$R_{\theta JA}$	86	$^{\circ}\text{C}/\text{W}$
Junction-to-case thermal resistance per diode	$R_{\theta JC}$	23	$^{\circ}\text{C}/\text{W}$

Note: Units mounted on PCB (5mm x 5mm Cu pad test board)

Electrical Specifications ($T_A=25^\circ\text{C}$ unless otherwise noted)

PARAMETER		CONDITIONS	SYMBOL	TYP	MA	UNIT
Forward voltage per diode ⁽¹⁾	RS2D to RS2G	$I_F = 1\text{A}, T_J = 25^\circ\text{C}$	V_F	1.01	-	V
		$I_F = 2\text{A}, T_J = 25^\circ\text{C}$		1.11	1.3	V
		$I_F = 1\text{A}, T_J = 125^\circ\text{C}$		0.87	-	V
		$I_F = 2\text{A}, T_J = 125^\circ\text{C}$		0.98	1.12	V
	RS2J	$I_F = 1\text{A}, T_J = 25^\circ\text{C}$		1.02	-	V
		$I_F = 2\text{A}, T_J = 25^\circ\text{C}$		1.12	1.3	V
		$I_F = 1\text{A}, T_J = 125^\circ\text{C}$		0.91	-	V
		$I_F = 2\text{A}, T_J = 125^\circ\text{C}$		1.01	1.07	V
	RS2K to RS2M	$I_F = 1\text{A}, T_J = 25^\circ\text{C}$		0.95	-	V
		$I_F = 2\text{A}, T_J = 25^\circ\text{C}$		1.03	1.3	V
		$I_F = 1\text{A}, T_J = 125^\circ\text{C}$		0.81	-	V
		$I_F = 2\text{A}, T_J = 125^\circ\text{C}$		0.90	1.03	V
Reverse current @ rated V_R per diode ⁽²⁾		$T_J = 25^\circ\text{C}$	I_R	-	5	μA
		$T_J = 125^\circ\text{C}$		-	100	μA
Reverse recovery time	RS2D to RS2G	$I_F=0.5\text{A}, I_R=1.0\text{A}, I_{rr}=0.25\text{A}$	t_{rr}	-	150	ns
	RS2J			-	250	ns
	RS2K to RS2M			-	500	ns
Junction capacitance per diode	RS2D to RS2G	1 MHz, $V_R=4.0\text{V}$	C_J	14	-	pF
	RS2J			13	-	pF
	RS2K to RS2M			10	-	pF

Notes:

(1) Pul se test with PW=0.3 ms (2) Pul se test with PW=30 ms

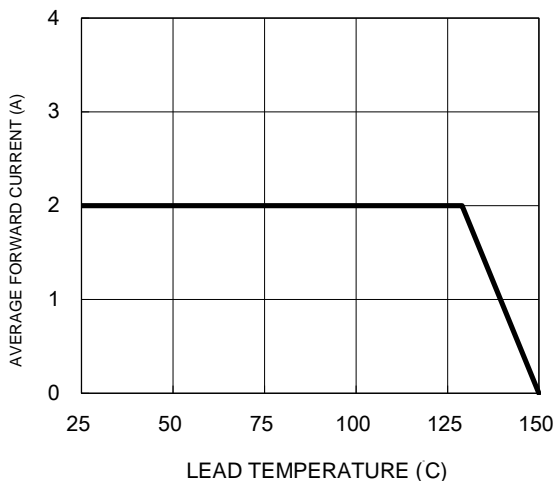
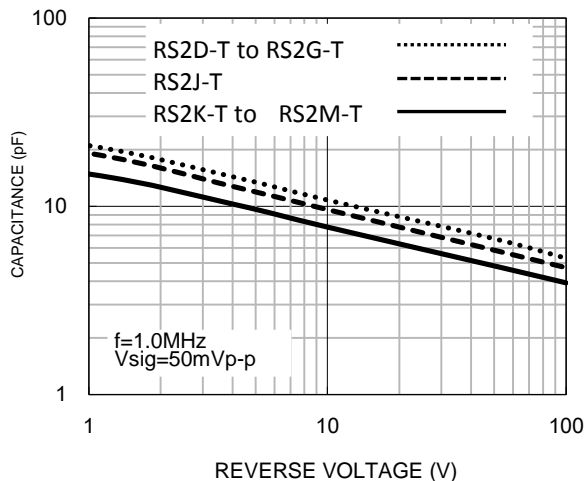
Characteristics Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)
Fig.1 Forward Current Derating Curve

Fig.2 Typical Junction Capacitance




Fig.3 Typical Reverse Characteristics

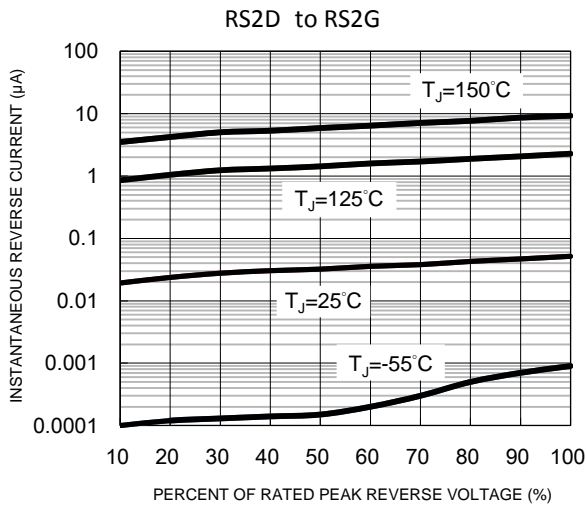


Fig.4 Typical Forward Characteristics

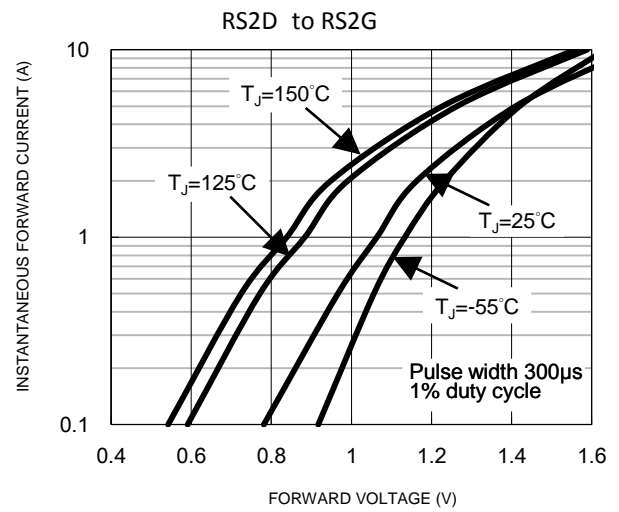


Fig.5 Typical Reverse Characteristics

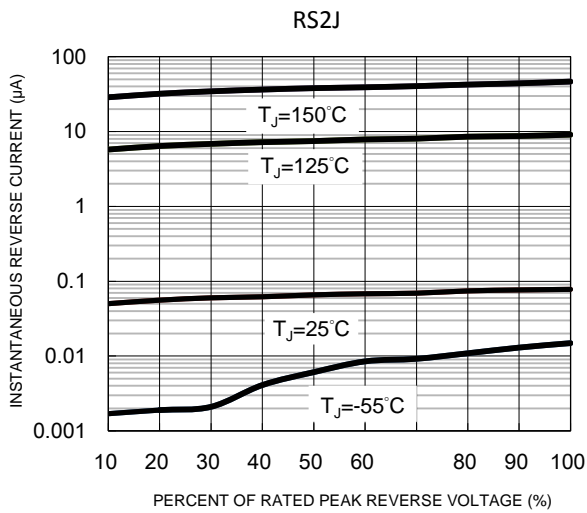


Fig.6 Typical Forward Characteristics

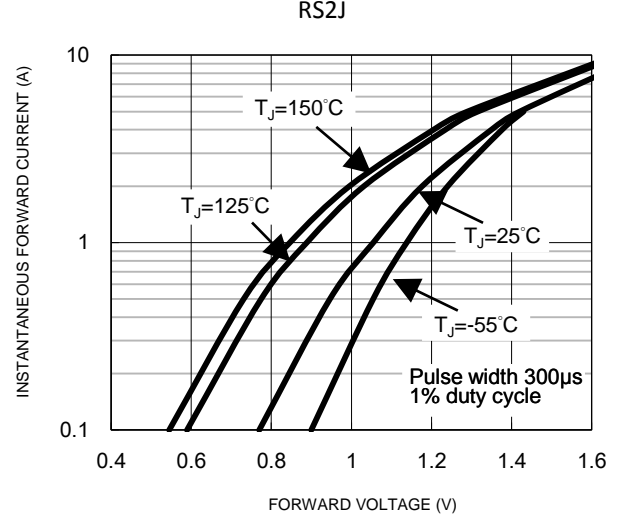


Fig.7 Typical Reverse Characteristics

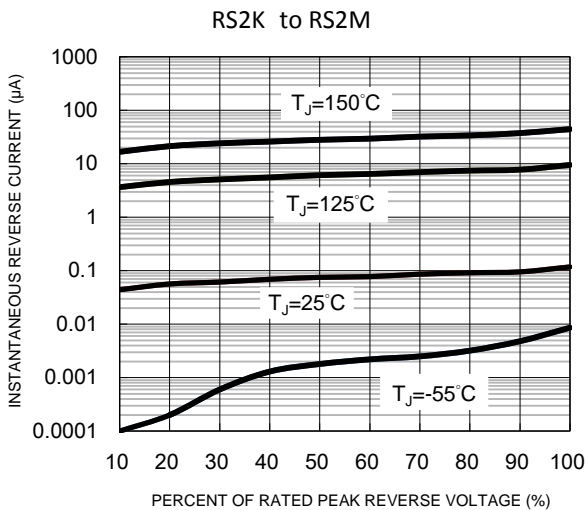
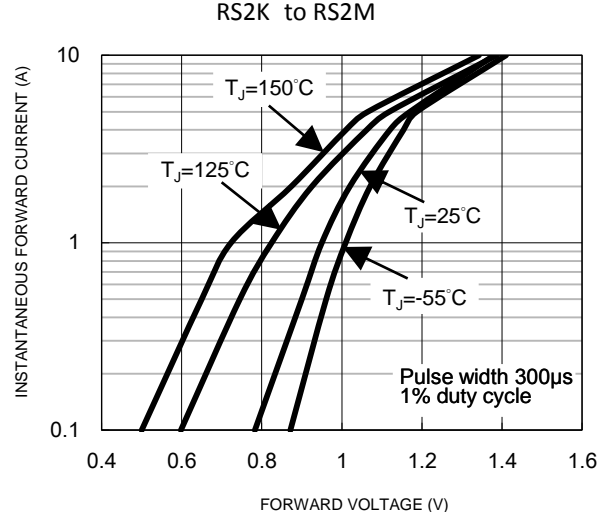


Fig.8 Typical Forward Characteristics



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