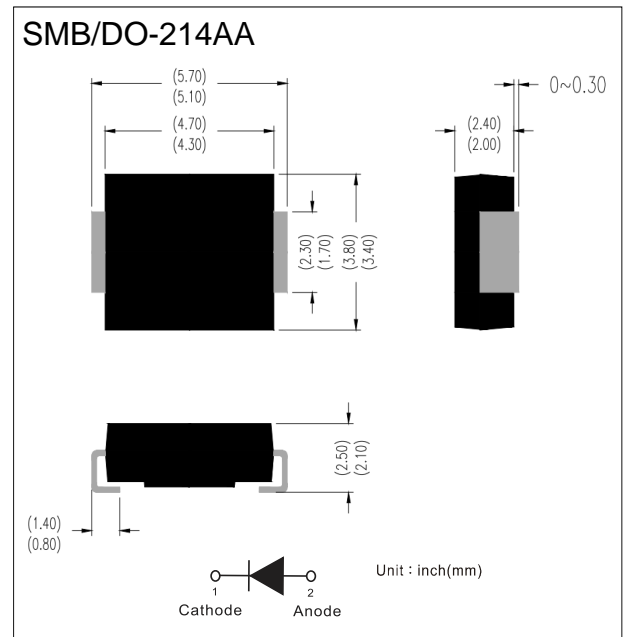


■ Features

- Glass passivated junction chip
- Ideal for automated placement
- Low forward voltage drop
- High surge current capability

■ Mechanical Data

- package:SMB/DO-214AA
- 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	UNIT	S5A	S5B	S5D	S5GB	S5JB	S5K	S5M
Maximum Repetitive peak reverse voltage	V_{RRM}	V	50	100	200	400	600	800	1000
Maximum RMS Voltage	V_{RMS}	V	35	70	140	280	420	560	700
Maximum DC Blocking Voltage	V_{DC}	V	50	100	200	400	600	800	1000
Average rectified output current @60Hz sine wave, resistance load, TL (Fig.1)	I_O	A	5.0						
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, $T_j=25^{\circ}\text{C}$	I_{FSM}	A	150						
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, $T_j=25^{\circ}\text{C}$			300						
Current squared time @1ms≤t≤8.3ms $T_j=25^{\circ}\text{C}$	I^2t	A^2s	94						
Storage temperature	T_{stg}	$^{\circ}\text{C}$	-55 ~ +150						
Junction temperature	T_j	$^{\circ}\text{C}$	-55 ~ +150						

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

PARAMETER	SYMBOL	UNIT	S5A	S5B	S5D	S5G	S5J	S5K	S5M
Typical Thermal resistance	R θ J-A	$^{\circ}\text{C}/\text{W}$	80 ⁽¹⁾						
	R θ J-L		35 ⁽¹⁾						
	R θ J-C		30 ⁽¹⁾						

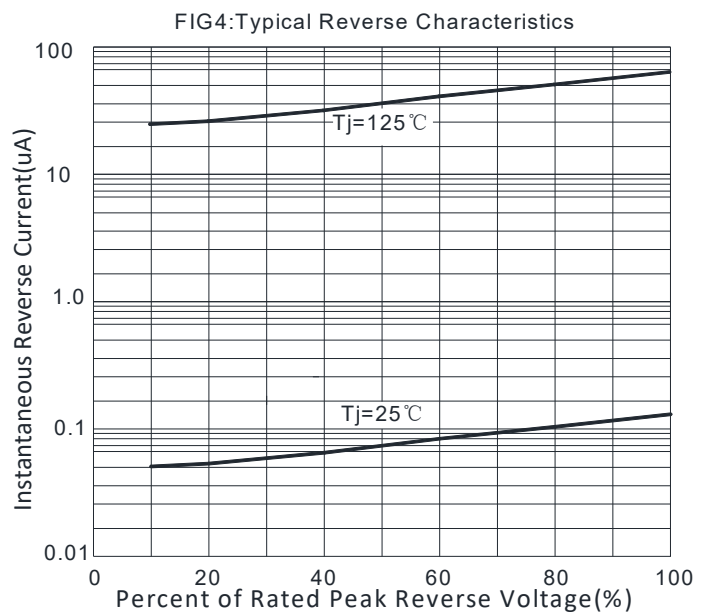
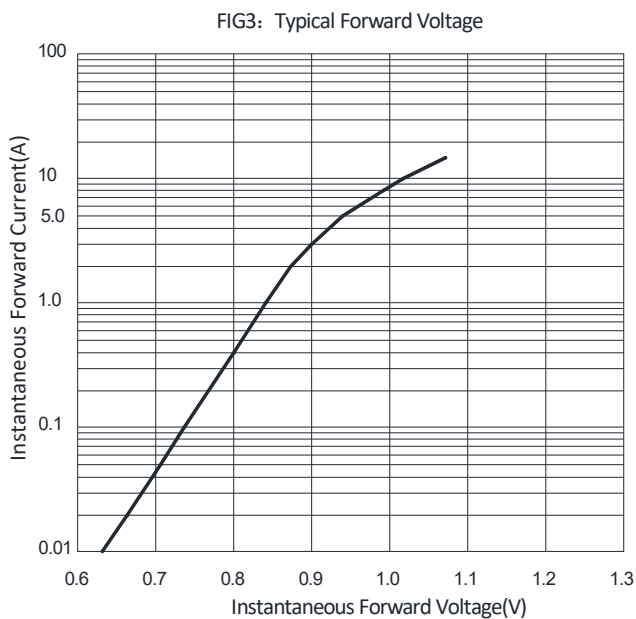
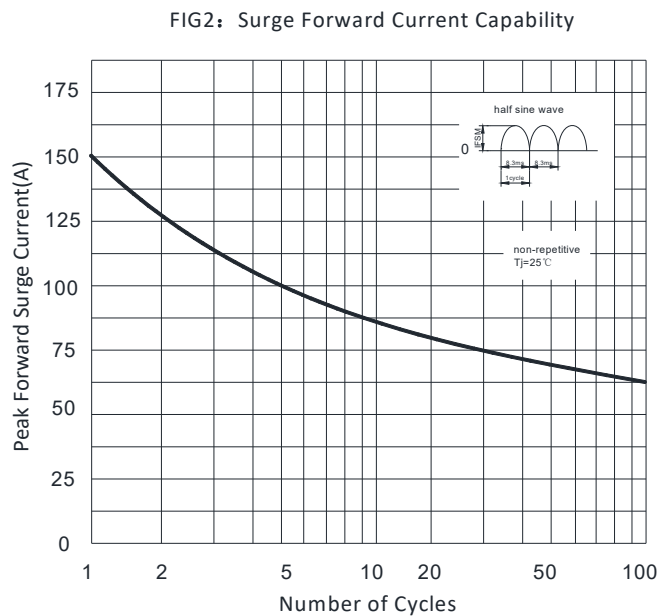
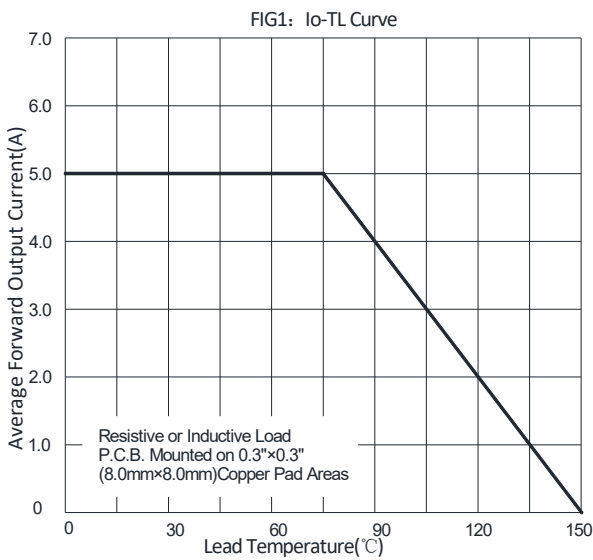
Note:
 (1) Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.3" x 0.3" (8.0 mm x 8.0 mm) copper pad areas



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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	S5A	S5B	S5D	S5G	S5J	S5K	S5M
Maximum instantaneous forward voltage	VF	V	IFM=5.0A	1.1						
Maximum DC reverse current at rated DC blocking voltage	IR	μA	$T_j=25^\circ\text{C}$	5						
			$T_j=125^\circ\text{C}$	100						
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	34						

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



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