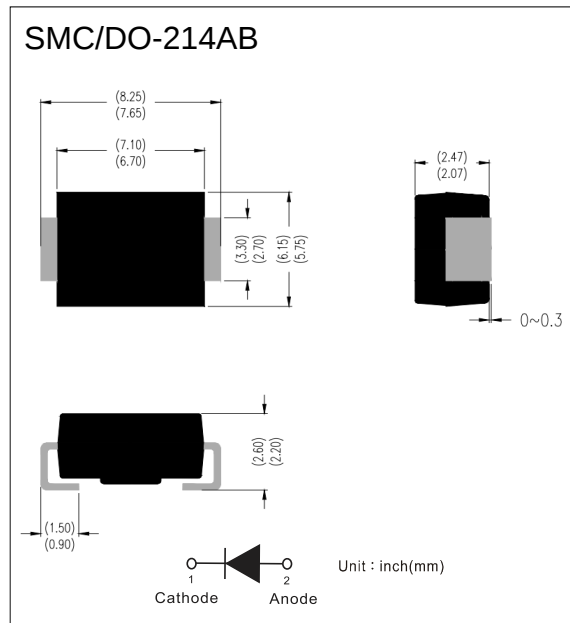


■ Features

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

■ Mechanical Data

- package: SMC/DO-214AB
- 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	S10A	S10B	S10D	G10G	S10J	S10K	S10M
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	10						
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, $T_j=25^{\circ}\text{C}$	I_{FSM}	A	200						
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, $T_j=25^{\circ}\text{C}$			400						
Current squared time @1ms≤t≤8.3ms $T_j=25^{\circ}\text{C}$, Rating of per diode	I^2t	A^2s	166						
Typical junction capacitance @Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	C_j	pF	55						
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	S10A	S10B	S10D	S10G	S10J	S10K	S10M
Typical Thermal resistance	$R_{\theta J-A(1)}$	$^{\circ}\text{C/W}$	50						
	$R_{\theta J-L(1)}$		10						
	$R_{\theta J-C(1)}$		8						

Note(1)

Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.6" x 0.6" (16 mm x 16 mm) copper pad areas

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	S10A	S10B	S10D	S10G	S10J	S10K	S10M
Maximum instantaneous forward voltage drop per diode	V_F	V	$I_{FM}=10\text{A}$	1.1						
Maximum DC reverse current at rated DC blocking voltage per diode	I_R	μA	$T_j=25^{\circ}\text{C}$	5						
			$T_j=125^{\circ}\text{C}$	100						



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

FIG.1: I_o - T_L Curve

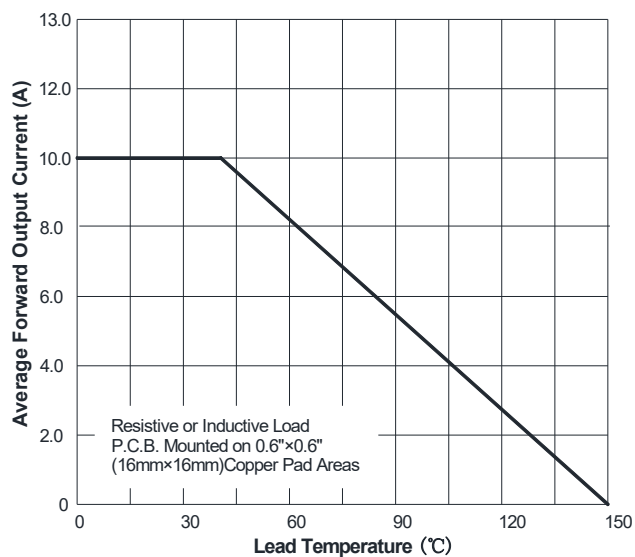


FIG.2: Forward Surge Current Capability

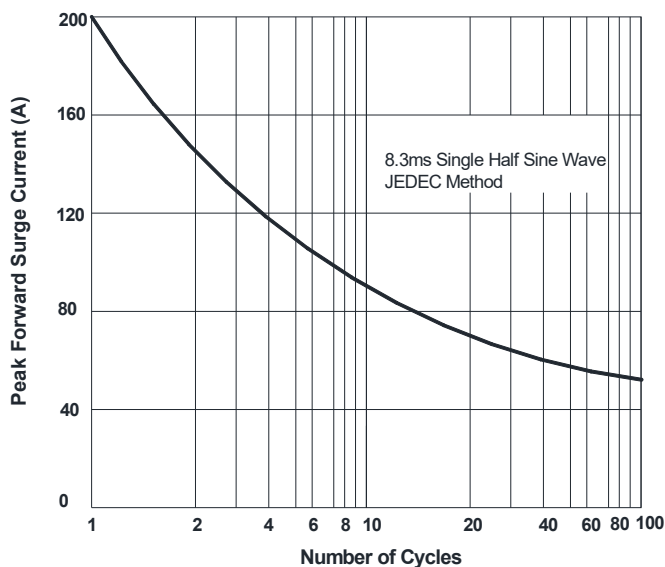


FIG.3: Typical Forward Voltage

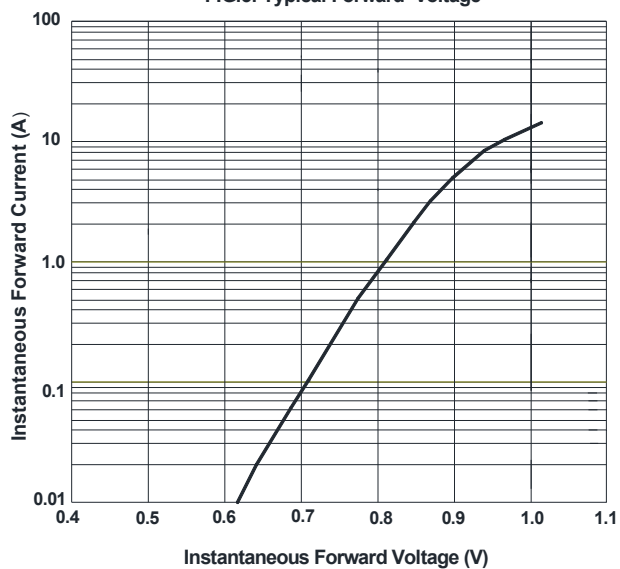


FIG.4: Typical Reverse Characteristics

