

Features

- Average Forward Current:I_{F(AV)}=1A
- Polarity: Color band denotes cathode

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)			
SS1x-E3/5AT	SMA (DO-214AC)	SS1 *	2000			







Maximum Ratings (Ta=25°C unless otherwise noted)

14	Symbol	Unit		SS1									
Item			Test Conditions	2	3	4	5	6	8	10	15	20	
Repetitive Peak Reverse Voltage	V_{RRM}	V		20	30	40	50	60	80	100	150	200	
Maximum RMS Voltage	VRMS	V		14	21	28	35	42	56	70	105	140	
Average Forward Current	I _{F(AV)}	А	60Hz Half-sine wave, Resistance load, FIG.1	1.0									
Surge(Non-repetitive)Forward Current	I _{FSM}	А	60Hz Half-sine wave, 1 cycle,Ta=25℃	30									
Junction Temperature	TJ	$^{\circ}$		-55~+125 -55~+150									
Storage Temperature	T _{STG}	$^{\circ}\!$		-55 ~ + 150									

Electrical Characteristics (Ta=25°C unless otherwise specified)

14	0	11	T40	SS1									
Item	Symbol	Unit	lest Co	Test Condition		3	4	5	6	8	10	15	20
Peak Forward Voltage	V _F	٧	I _F =		0.55		0	.70	0.85		0.95		
Peak Reverse Current	I _{RRM1}	 Λ	\/ -\/	T _a =25°C		0.5				0.1			
	I _{RRM2}	mA	$V_{RM}=V_{RRM}$	T _a =100°C	10					5.0			
Thermal Resistance(Typical)	$R_{\theta J-A}$	°C/	Between junct	65									
	R _{θJ-L}	W	Between junct	tion and terminal	20								

Notes:

Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" \times 0.2" (5.0 mm \times 5.0 mm) copper pad areas



Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

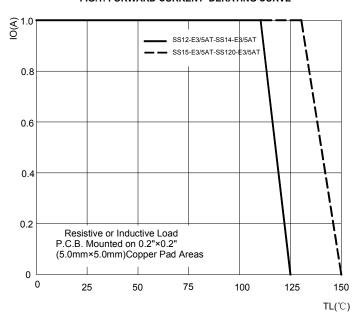


FIG2:Surge Forward Current Capadility

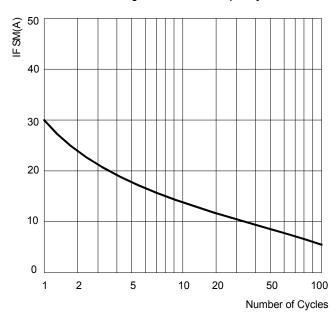


FIG.3: TYPICAL FORWARD CHARACTERISTICS

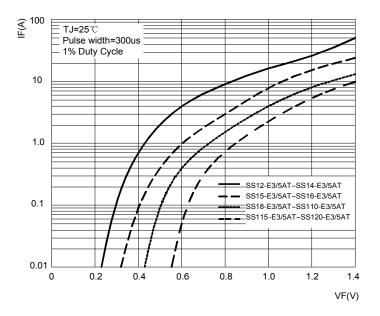
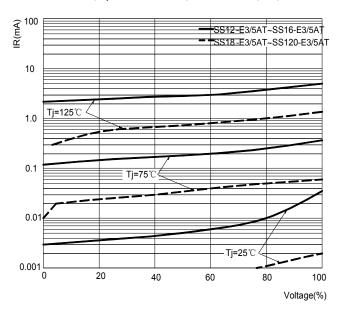
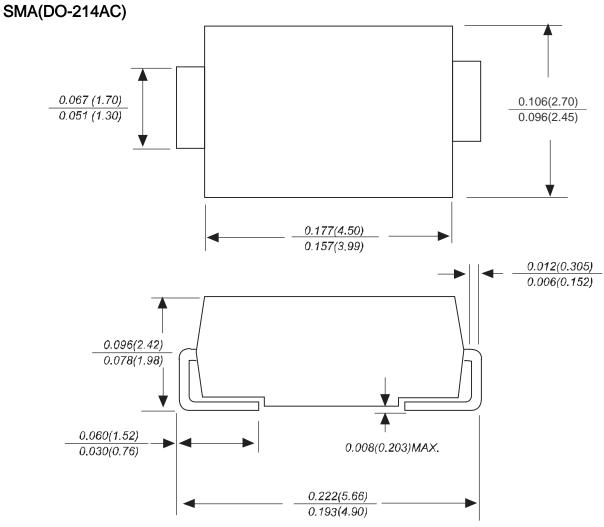


FIG.4: TYPICAL REVERSE CHARACTERISTICS





Package Outline Dimensions



Dimensions in inches and (millimeters)



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