

FEATURES

Low reverse leakage

| High forward surge capability

High reliability

| High temperature soldering guaranteed:260 °C/10seconds





Schematic Symbol

MECHANICAL DATA

Case:SMA Molded plastic	
Epoxy: UL 94V-0 rate flame retardant	
Lead: Pure tin plated, lead free	

APPROVALS

RoHS	Compliance with 2011/65/EU
HF	Compliance with IEC61249-2-21:2003

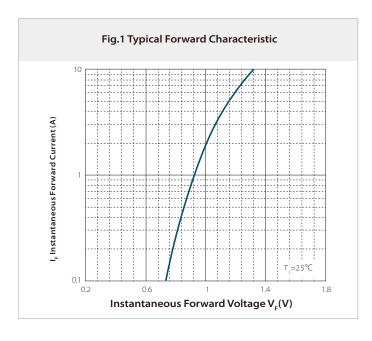
MAXIMUM RATINGS AND CHARACTERISTICS ($T_A = 25$ °C)

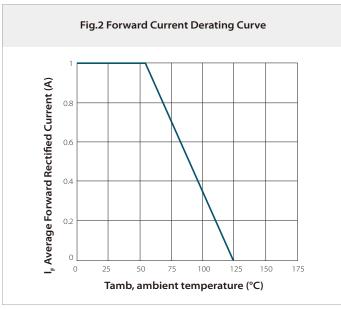
Symbol	Parameter		M1	M2	М3	M4	M5	M6	M7	Unit
	Marking		M1	M2	M3	M4	M5	M6	M7	
V _{RRM}	Maximum repetitive peak reverse vo	ltage	50	100	200	400	600	800	1000	
V _{RMS}	Maximum RMS voltage		35	70	140	280	420	560	700	V
V _{DC}	Maximum DC blocking voltage		50	100	200	400	600	800	1000	-
I _{F(AV)}	Maximum average forward rectified current					1.0				
I _{FSM}	Non-repetitive peak forward surge current 8.3 ms singlehalf sine-wave					30				А
V _F	Maximum forward voltage I _F =1A					1.1				V
1	Maximum reverse	T _A =25°C				5				^
I _R	current @V _{DC}	T _A =100°C				100				uA
R _{eJA}	Typical thermal resistance (Note 1)					47				°C/W
C _J	Type junction capacitance V _R =4.0V,f=1MHz			65						PF
T,	Operating junction temperature rang			-55~+125						°C
T _{stg}	Storage temperature rang				-	55~+150)			°C

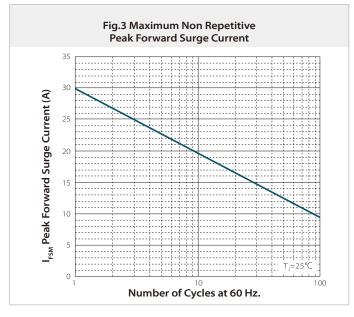
Note: 1) Thermal resistance from junction to ambient, PCB mounted.

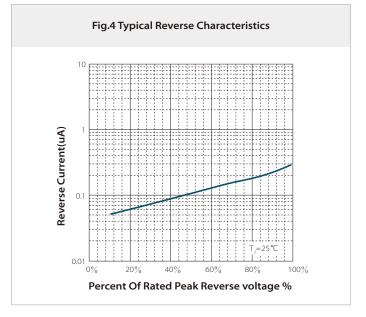


CHARACTERISTIC CURVES





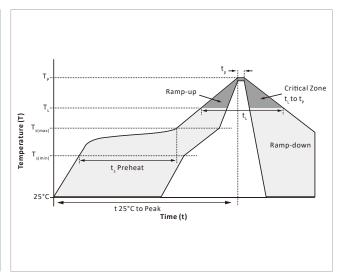




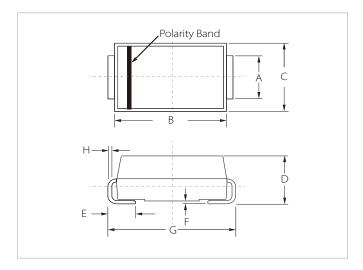


SOLDERING PARAMETERS

	Lead-free assembly		
	Temperature Max (T _{s(min)})	150°C	
Pre Heat	Temperature Max (T _{s(max)})	200°C	
	Time (min to max) (t_s)	60 – 180 secs	
Average rai	mp up rate (Liquidus Temp (T_L) to peak	3°C/second max	
	$T_{S(max)}$ to T_L - Ramp-up Rate	3°C/second max	
Reflow	Temperature (T _L) (Liquidus)	217°C	
Reliow	Time (min to max) (t _L)	60 – 150 seconds	
PeakTempe	Peak Temperature (T _p)		
Time withir	20 – 40 seconds		
Ramp-dow	6°C/second max		
Time 25°C t	8 minutes max.		
Do not exc	260°C		



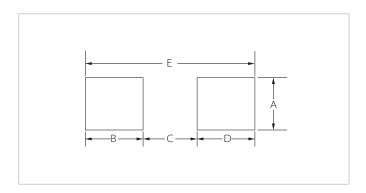
DO-214AC(SMA) PACKAGE INFORMATION



Ref.	Millin	neters	Inc	hes
i.e.i.	Min.	Max.	Min.	Max.
А	1.20	1.60	0.047	0.063
В	4.20	4.60	0.165	0.181
С	2.60	2.80	0.102	0.110
D	2.10	2.40	0.083	0.094
Е	0.76	1.52	0.030	0.060
F	0.02	0.20	0.001	0.008
G	4.85	5.25	0.191	0.207
Н	0.15	0.30	0.006	0.012



RECOMMENDED PAD LAYOUT DIMENSIONS



Ref.	Millin	neters	Inches		
	Min.	Max.	Min.	Max.	
А	1.63	-	0.064	-	
В	1.45	-	0.057	-	
С	-	2.80	-	0.090	
D	1.45	-	0.057	-	
E	5.28	BREF	0.208	BREF	

ORDERING INFORMATION

Part Number	Component Package	QTY/Reel	Reel Size
M1~M7	DO-214AC(SMA)	7500PCS	13"







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