

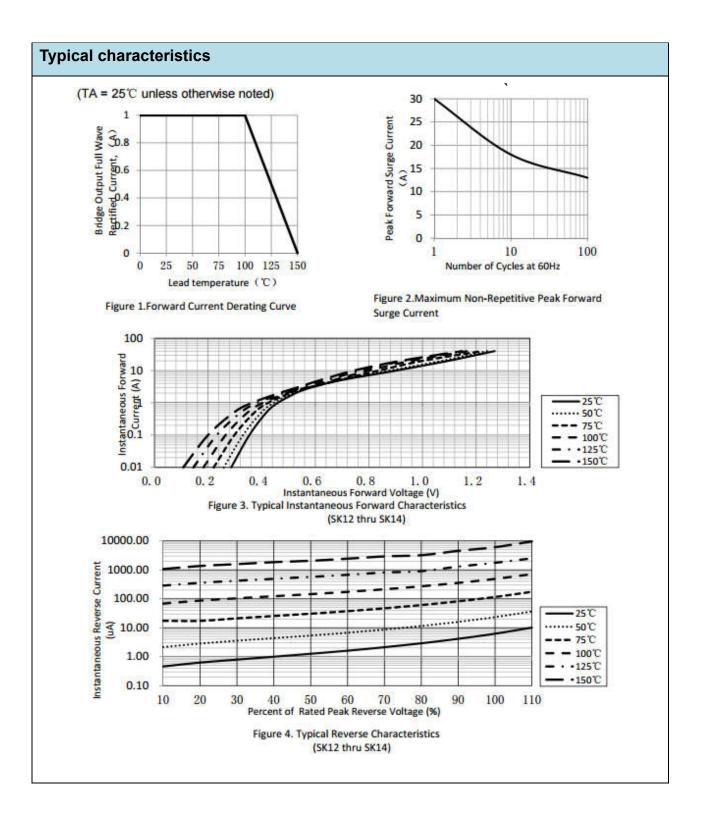
SMA				Features • Low forward voltage drop • High current capability • Moisture sensitivity: level 1, per J-STD-020 • AEC-Q101 qualified • High temperature soldering guaranteed: 260°C/10 seconds					
			 Hal 	ogen-fre	e accord	ding to IE	EC 6124	9-2-21	
Primary characteris	stics		Appli	cations	5				
I _{F(AV)}		1A	For us	se in low	voltage	, high fre	quency	inverter	ſS,
V _{RRM}	20V	to 60V	free w	free wheeling, and polarity protection applications					ons
I _{FSM}	3	0A							
I _{RM}	0.2/0	.15mA	Mech	anical	data				
V _{FM} at I _F =1A	0.5	/0.7V	• SMA						
T _J max.	15	0 °C	 Epoxy meets UL 94 V-0 flammability rating Terminals: Tin plated leads. 						
				-					
Maximum rating (Ta:	=25ºCu	nless othe	rwise n	oted)					
	=25°Cu	nless other		oted)		SMA			llmit
Maximum rating (Ta Parameter	=25°Cu	nless other	rwise n Sym	oted) SS12	SS13	SMA SS14	SS15	SS16	Unit
		nless other			SS13 30		SS15 50	SS16 60	- Unit V
Parameter		nless other	Sym	SS12		SS14			
Parameter Max. repetitive peak reverse		nless other	Sym V _{RRM}	SS12 20	30	SS14 40	50	60	V
Parameter Max. repetitive peak reverse Max. RMS reverse voltage Max. DC blocking voltage Max. average forward curren	voltage		Sym Vrrm Vrms	SS12 20 14	30 21	SS14 40 28	50 35	60 42	V V
Parameter Max. repetitive peak reverse Max. RMS reverse voltage Max. DC blocking voltage Max. average forward curren Non-repetitive peak forward	voltage		Sym Vrrm Vrms Vdc If(AV)	SS12 20 14	30 21	SS14 40 28 40 1	50 35	60 42	V V V A
Parameter Max. repetitive peak reverse Max. RMS reverse voltage Max. DC blocking voltage Max. average forward curren Non-repetitive peak forward 8.3ms single half-sine-wave	voltage nt surge curr	ent	Sym Vrrm Vrms Vdc If(av) IfSM	SS12 20 14	30 21 30	SS14 40 28 40	50 35 50	60 42 60	V V V A A
Parameter Max. repetitive peak reverse Max. RMS reverse voltage Max. DC blocking voltage Max. average forward curren Non-repetitive peak forward 8.3ms single half-sine-wave Max. instantaneous forward	voltage nt surge curr voltage dr	ent op per diode	Sym Vrrm Vrms Vdc If(AV)	SS12 20 14	30 21 30 0.5	SS14 40 28 40 1	50 35 50 0.	60 42 60 7	V V V A
Parameter Max. repetitive peak reverse Max. RMS reverse voltage Max. DC blocking voltage Max. average forward curren Non-repetitive peak forward 8.3ms single half-sine-wave Max. instantaneous forward Max. instantaneous reverse	voltage nt surge curr voltage dr current	ent op per diode Ta=25 °C	Sym Vrrm Vrms Vdc If(av) IfSM	SS12 20 14	30 21 30	SS14 40 28 40 1 30	50 35 50	60 42 60 7	V V V A A
Parameter Max. repetitive peak reverse Max. RMS reverse voltage Max. DC blocking voltage Max. average forward curren Non-repetitive peak forward 8.3ms single half-sine-wave Max. instantaneous forward Max. instantaneous reverse at rated DC blocking voltage	voltage nt surge curr voltage dr current	ent op per diode	Sym Vrrm Vrms Vdc If(av) Ifsm Vfm Irm	SS12 20 14	30 21 30 0.5 0.2	SS14 40 28 40 1 30 10	50 35 50 0.	60 42 60 7	V V V A A V mA
Parameter Max. repetitive peak reverse Max. RMS reverse voltage Max. DC blocking voltage Max. average forward curren Non-repetitive peak forward 8.3ms single half-sine-wave Max. instantaneous forward Max. instantaneous reverse at rated DC blocking voltage Operating junction temperatu	voltage nt surge curr voltage dr current	ent op per diode Ta=25 °C	Sym Vrrms Vrms Vdc If(AV) Ifsm Vfm Irm Tj	SS12 20 14	30 21 30 0.5 0.2	SS14 40 28 40 1 30 10 55 ~ +150	50 35 50 0.	60 42 60 7	∨ ∨ ∨ A A V mA °C
Parameter Max. repetitive peak reverse Max. RMS reverse voltage Max. DC blocking voltage Max. average forward curren Non-repetitive peak forward 8.3ms single half-sine-wave Max. instantaneous forward Max. instantaneous reverse at rated DC blocking voltage	voltage nt surge curr voltage dr current	ent op per diode Ta=25 °C	Sym Vrrm Vrms Vdc If(av) Ifsm Vfm Irm Tj Tstg	SS12 20 14	30 21 30 0.5 0.2	SS14 40 28 40 1 30 10 55 ~ +150 55 ~ +150	50 35 50 0.	60 42 60 7	V V V A A V mA
Parameter Max. repetitive peak reverse Max. RMS reverse voltage Max. DC blocking voltage Max. average forward curren Non-repetitive peak forward 8.3ms single half-sine-wave Max. instantaneous forward Max. instantaneous reverse at rated DC blocking voltage Operating junction temperatu	voltage nt surge curr voltage dr current	ent op per diode Ta=25 °C	Sym Vrrms Vrms Vdc If(AV) Ifsm Vfm Irm Tj	SS12 20 14	30 21 30 0.5 0.2	SS14 40 28 40 1 30 10 55 ~ +150	50 35 50 0.	60 42 60 7	∨ ∨ ∨ A A V mA °C

Notes:

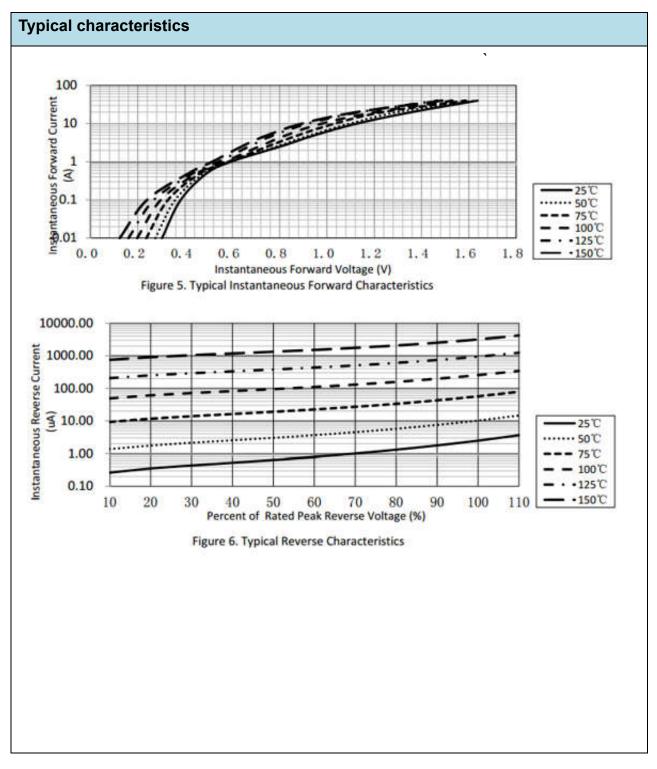
1 The thermal resistance from junction to lead, ambient and cover.



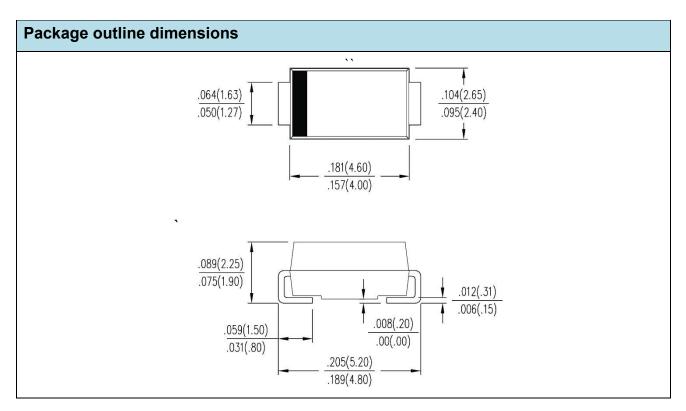
Orderinginformation (Example)								
PREFERRED	UNITWEIGHT(g)	PREFERREDPACKAGECODE	BASEQUANTITY	DELIVERYMODE				
SS12								











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