

Surface Mounted Schottky Barrier Rectifiers

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 Halogen-free according to IEC 61249-2-21 definition 					
Primary characteristics		Applications					
I _{F(AV)}		1A	For use	For use in low voltage, high frequency inverters,			ers,
V _{RRM}	20V	to 40V	free wh	neeling, and p	polarity protec	tion applica	tions
I _{FSM}	3	0A					
I _{RM}		2mA	Mecha	anical data			
V _{FM} at I _F =1A		42V	 SMA 				
			 Epoxy meets UL 94 V-0 flammability rating 				
T, max.	15	0 °C	• Term	ninals: Tin pla nity: As marke	ted leads.		
TJ max. Maximum rating (Ta			 Term Pola 	ninals: Tin pla Irity: As marke	ted leads.		
Maximum rating (Ta			• Term • Pola	ninals: Tin pla Irity: As marke	ted leads.		llmit
			 Term Pola 	ninals: Tin pla Irity: As marke	ted leads. ed.	SL14	Unit
Maximum rating (Ta	a=25°Cu		• Term • Pola	ninals: Tin pla irity: As marke oted)	ted leads. ed. SMA		Unit V
Maximum rating (Ta Parameter	a=25°Cu		Term Pola rwise nc Sym	ninals: Tin pla nity: As marke oted) SL12	ted leads. ed. SMA SL13	SL14	
Maximum rating (Ta Parameter Max. repetitive peak reverse	a=25°Cu		Term Pola rwise nc Sym VRRM	ninals: Tin pla irity: As marke oted) SL12 20	sMA SL13 30	SL14 40	V
Maximum rating (Ta Parameter Max. repetitive peak reverse Max. RMS reverse voltage Max. DC blocking voltage Max. average forward curre	a=25°Cu e voltage	nless othe	Term Pola rwise nc Sym VRRM VRMS	ninals: Tin pla prity: As marke oted) SL12 20 14	SMA SL13 30 21	SL14 40 28	V V
Maximum rating (Ta Parameter Max. repetitive peak reverse Max. RMS reverse voltage Max. DC blocking voltage Max. average forward curre Non-repetitive peak forward	a=25°Cu e voltage ent I surge curr	nless othe	Term Term Pola rwise nc Sym VRRM VRMS VDC	ninals: Tin pla prity: As marke oted) SL12 20 14	ted leads. ed. SMA SL13 30 21 30	SL14 40 28	V V V
Maximum rating (Ta Parameter Max. repetitive peak reverse Max. RMS reverse voltage Max. DC blocking voltage Max. average forward curre Non-repetitive peak forward 8.3ms single half-sine-wave	a=25°Cu e voltage ent I surge curr	nless othe	Term Term Pola rwise nc Sym VRM VRM VRMS VDC IF(AV) IFSM	ninals: Tin pla prity: As marke oted) SL12 20 14	ted leads. ed. SMA SL13 30 21 30 1 30 1 30	SL14 40 28	V V V A A
Maximum rating (Ta Parameter Max. repetitive peak reverse Max. RMS reverse voltage Max. DC blocking voltage Max. DC blocking voltage Max. average forward curren Non-repetitive peak forward 8.3ms single half-sine-wave Max. instantaneous forward	a=25°Cu e voltage ent I surge curr e I voltage dro	nless othe ent op per diode	Term Term Pola rwise nc Sym VRM VRM VRM VLC IF(AV)	ninals: Tin pla prity: As marke oted) SL12 20 14	ted leads. ed. SMA SL13 30 21 30 1 30 1 30 0.42	SL14 40 28	V V V A
Maximum rating (Ta Parameter Max. repetitive peak reverse Max. RMS reverse voltage Max. DC blocking voltage Max. average forward curre Non-repetitive peak forward 8.3ms single half-sine-wave Max. instantaneous forward Max. instantaneous reverse	e voltage ent I surge curr voltage dr current	nless othe ent op per diode Ta=25 °C	Term Term Pola rwise nc Sym VRM VRM VRMS VDC IF(AV) IFSM	ninals: Tin pla prity: As marke oted) SL12 20 14	ted leads. ed. SMA SL13 30 21 30 1 30 0.42 0.2	SL14 40 28	V V V A A
Maximum rating (Ta Parameter Max. repetitive peak reverse Max. RMS reverse voltage Max. DC blocking 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	e voltage ent I surge curr voltage dr current e	nless othe ent op per diode	Term Term Pola rwise nc Sym VRM VRM VRM VGC IF(AV) IFSM VFM IRM	ninals: Tin pla prity: As marke oted) SL12 20 14	ted leads. ed. SMA SL13 30 21 30 21 30 1 30 0.42 0.2 10	SL14 40 28	V V V A A A V mA
Maximum rating (Ta Parameter Max. repetitive peak reverse Max. RMS reverse voltage Max. DC blocking voltage Max. average forward curre Non-repetitive peak forward 8.3ms single half-sine-wave Max. instantaneous forward Max. instantaneous reverse at rated DC blocking voltage Operating junction temperat	e voltage ent I surge curr voltage dr current e	nless othe ent op per diode Ta=25 °C		ninals: Tin pla prity: As marke oted) SL12 20 14	ted leads. ed. SMA SL13 30 21 30 21 30 1 30 0.42 0.2 10 -55 ~ +150	SL14 40 28	V V V A A V V
Maximum rating (Ta Parameter Max. repetitive peak reverse Max. RMS reverse voltage Max. DC blocking 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	e voltage ent I surge curr voltage dr current e	nless othe ent op per diode Ta=25 °C	Term Term Pola rwise nc Sym VRM VRM VRM VGC IF(AV) IFSM VFM IRM	ninals: Tin pla prity: As marke oted) SL12 20 14	ted leads. ed. SMA SL13 30 21 30 21 30 1 30 0.42 0.2 10	SL14 40 28	V V A A A V mA °C
Maximum rating (Ta Parameter Max. repetitive peak reverse Max. RMS reverse voltage Max. DC blocking voltage Max. average forward curre Non-repetitive peak forward 8.3ms single half-sine-wave Max. instantaneous forward Max. instantaneous reverse at rated DC blocking voltage Operating junction temperat	a=25°Cu e voltage ent I surge curr current e current e ture	nless othe ent op per diode Ta=25 °C		ninals: Tin pla prity: As marke oted) SL12 20 14	ted leads. ed. SMA SL13 30 21 30 21 30 1 1 30 0.42 0.2 10 -55 ~ +150 -55 ~ +150	SL14 40 28	V V A A A V mA °C

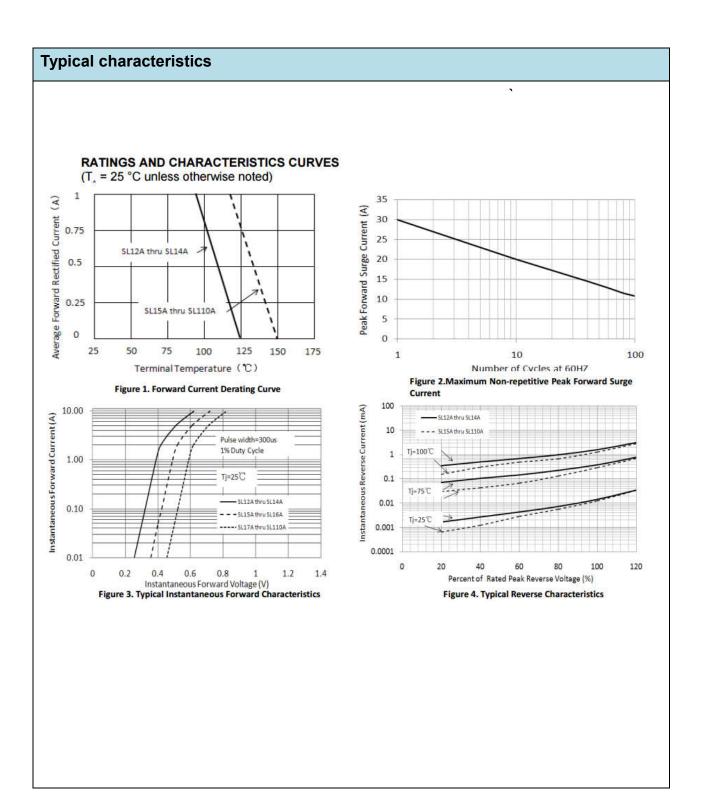
Notes:

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



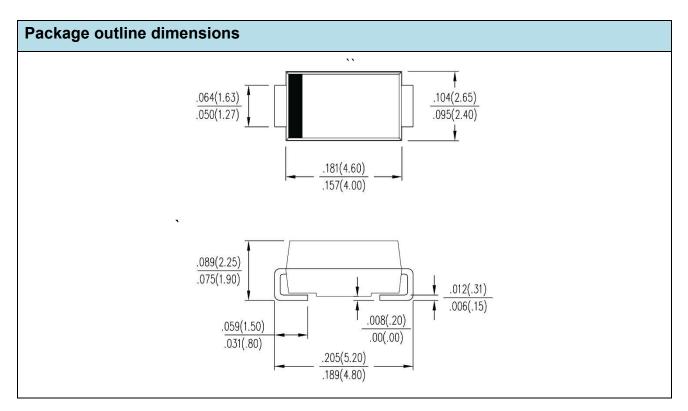
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Orderinginformation (Example)							
PREFERRED	UNITWEIGHT(g) PREFERREDPACKAGECODE		BASEQUANTITY	DELIVERYMODE			
SL12							





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