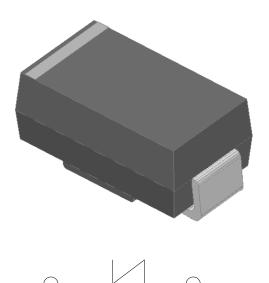
Surface Mount High Efficient Rectifier



Features

- Low profile package
- Ideal for automated placement
- Glass passivated chip junction
- High forward surge capability
- Super fast reverse recovery time
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C

Typical Applications

For use in high frequency rectification of power supplies, inverters, converters, and freewheeling diodes for consumer, and telecommunication.

Mechanical Data

- Package: DO-214AC (SMA) Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free
- Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Polarity: Cathode line denotes the cathode end

■Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	HS1A	HS1B	HS1D	HS1F	HS1G	HS1J	HS1K	HS1M
Device marking code			HS1A	HS1B	HS1D	HS1F	HS1G	HS1J	HS1K	HS1M
Repetitive peak reverse voltage	VRRM	V	50	100	200	300	400	600	800	1000
Average rectified output current @60Hz sine wave, Resistance load, Ta (FIG.1)	IO	А	1.0							
Surge(non-repetitive)forward current @ 60Hz Half-sine wave,1 cycle, Ta=25℃	IFSM	А	30							
Storage temperature	Tstg	°C	-55~+150							
Junction temperature	Тј	°C	-55 ~ +150							

Electrical Characteristics ($T_a=25^{\circ}C$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	HS1A	HS1B	HS1D	HS1F	HS1G	HS1J	HS1K	HS1M
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=1.0A	1.0		1.3		1.7			
Maximum reverse recovery time	T _{RR}	ns	l _F =0.5A,I _R =1.0A, I _n =0.25A	50			75				
Maximum DC reverse current at	IRRM	Ta=25℃		5							
rated DC blocking voltage per diode @ VRM=VRRM			µA T _a =100℃		100						

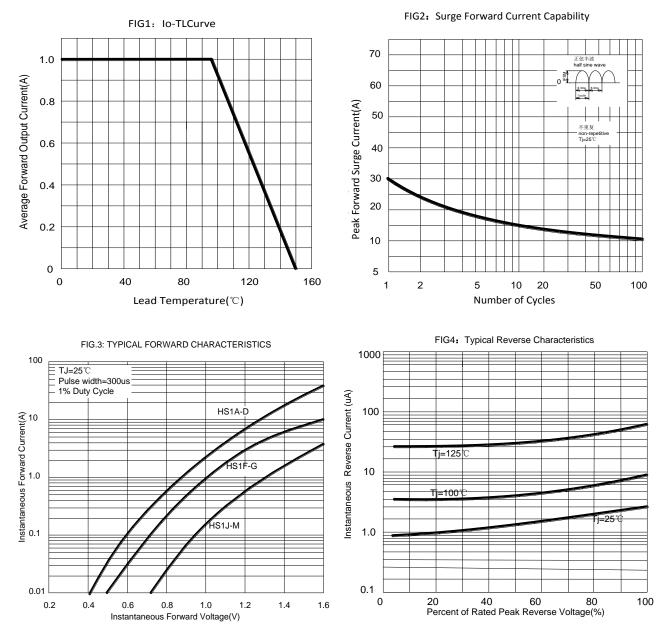
PARAMETER	SYMBOL	UNIT	HS1A	HS1B	HS1D	HS1F	HS1G	HS1J	HS1K	HS1M
Thermal Desistance	RθJ-A	°C/W	75 ¹⁾							
Thermal Resistance	R0J-L	℃/W	23 ¹⁾							

■Thermal Characteristics (T_a=25°C Unless otherwise specified)

Note

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

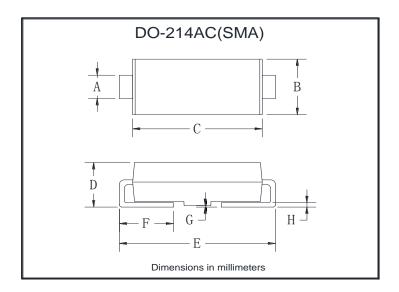
Characteristics (Typical)



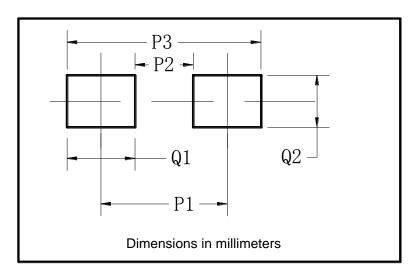
Ordering Information (Example)

PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
HS1A-HS1M	F1	Approximate 0.059	5000	10000	80000	13" reel
HS1A-HS1M	F2	Approximate 0.059	7500	15000	120000	13" reel
HS1A-HS1M	F3	Approximate 0.059	7500	15000	60000	13" reel
HS1A-HS1M	F4	Approximate 0.059	1800	7200	57600	7" reel
HS1A-HS1M	F5	Approximate 0.059	2000	8000	64000	7" reel
HS1A-HS1M	F6	Approximate 0.059	5000	10000	100000	13" reel

Outline Dimensions



■Suggested Pad Layout



DO-214AC(SMA)						
Dim	Min	Max				
А	1.25	1.58				
В	2.40	2.83				
С	4.25	4.75				
D	1.90	2.30				
E	4.93	5.28				
F	0.76	1.41				
G	0.08	0.20				
Н	0.15	0.31				

DO-214AC(SMA)				
Dim	Millimeters			
P1	4.00			
P2	1.50			
P3	6.50			
Q1	2.50			
Q2	1.70			

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HS1A THRU HS1M

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