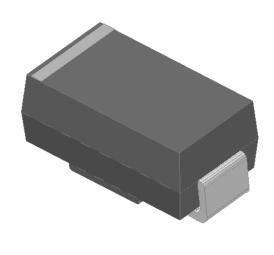




Surface Mount High Efficient Rectifier



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)

ge (a										
PARAMETER	SYMBOL	UNIT	HS2AA	HS2BA	HS2DA	HS2FA	HS2GA	HS2JA	HS2KA	HS2MA
Device marking code			HS2AA	HS2BA	HS2DA	HS2FA	HS2GA	HS2JA	HS2KA	HS2MA
Maximum Repetitive peak reverse voltage	VRRM	V	50	100	200	300	400	600	800	1000
Average rectified output current @60Hz sine wave, Resistance load, TL (FIG.1)	Ю	Α	2.0							
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Ta=25℃	IFSM	Α				5	0			
Storage temperature	Tstg	$^{\circ}$				-55~	+150			
Junction temperature	Tj	$^{\mathbb{C}}$				-55 ~	+150			

■Electrical Characteristics (Ta=25°C Unless otherwise specified)

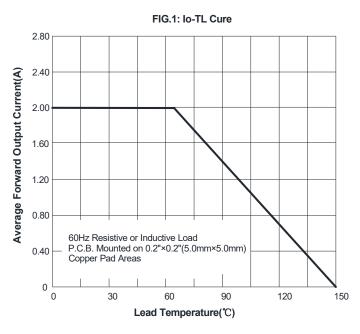
PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	HS2AA	HS2BA	HS2DA	HS2FA	HS2GA	HS2JA	HS2KA	HS2MA
Maximum instantaneous forward voltage drop per diode	VF	٧	IFM=2.0A		1.0		1	.3		1.7	
Maximum reverse recovery time	T_{RR}	ns	I _F =0.5A,I _R =1.0A, I _{II} =0.25A			50				75	
Maximum DC reverse current at rated DC			T _a =25℃	5							
blocking voltage per diode@ VRM=VRRM		μА	Ta=125°C	100							

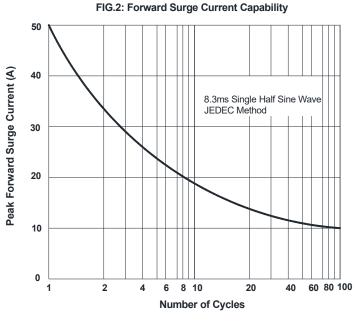
■Thermal Characteristics (Ta=25°C Unless otherwise specified)

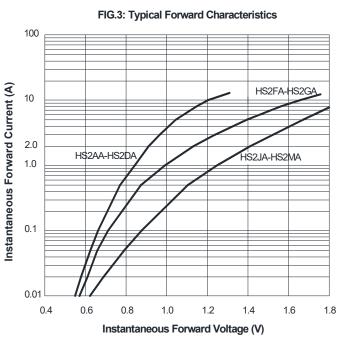
PARAMETER	SYMBOL	UNIT	HS2AA	HS2BA	HS2DA	HS2FA	HS2GA	HS2JA	HS2KA	HS2MA
	RθJ-A	°C/W	75 ¹⁾							
Typical Thermal Resistance	RøJ-L	°C/W	25 ¹⁾							
	RθJ-C	°C/W	201)							

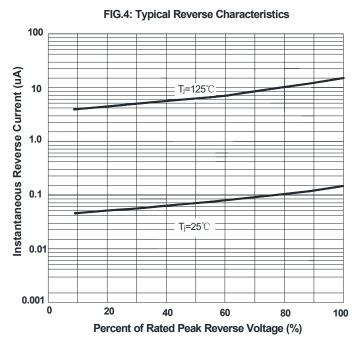
Note

■ Characteristics (Typical)



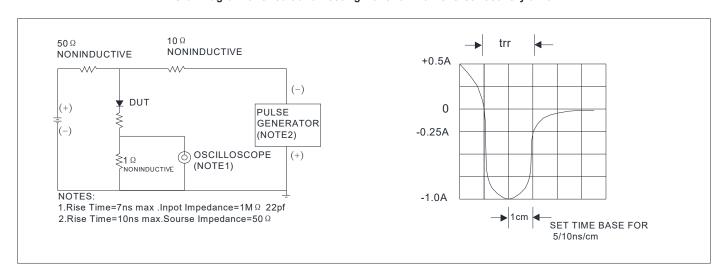






⁽¹⁾ Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas

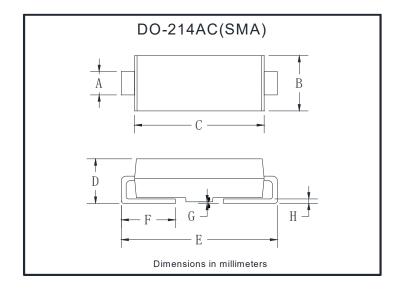
FIG.5: Diagram of circuit and Testing wave form of reverse recovery time



■Ordering Information (Example)

	<u> </u>	(Example)				
PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
HS2AA-HS2MA	F1	Approximate 0.059	5000	10000	80000	13" reel
HS2AA-HS2MA	F2	Approximate 0.059	7500	15000	120000	13" reel
HS2AA-HS2MA	F3	Approximate 0.059	7500	15000	60000	13" reel
HS2AA-HS2MA	F4	Approximate 0.059	1800	7200	57600	7" reel
HS2AA-HS2MA	F5	Approximate 0.059	2000	8000	64000	7" reel
HS2AA-HS2MA	F6	Approximate 0.059	5000	10000	100000	13" reel

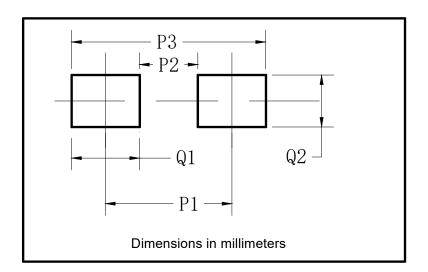
■ Outline Dimensions



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



■Suggested Pad Layout



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



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