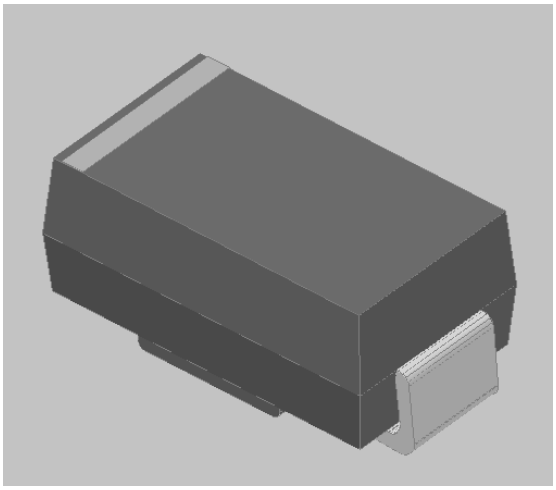
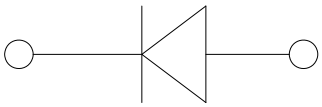
RoHS
COMPLIANT





- 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

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

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

■ (T_a=25 Unless otherwise specified）

Device marking code			HS1A	HS1B	HS1D	HS1F	HS1G	HS1J	HS1K	HS1M
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	V	50	100	200	300	400	600	800	1000
Maximum RMS Voltage	V_{RMS}	V	35	70	140	210	280	420	560	700
Maximum DC blocking Voltage	V_{DC}	V	50	100	200	300	400	600	800	1000
Average rectified output current @60Hz sine wave, Resistance load, TL (FIG.1)	I_O	A	1.0							
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25℃	I_{FSM}	A	30							
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25℃			60							
Current squared time @1ms≤t≤8.3ms Tj=25℃	I^2t	A^2s	3.735							
Storage temperature	T_{stg}		-55 ~ +150							
Junction temperature	T_j		-55 ~ +150							

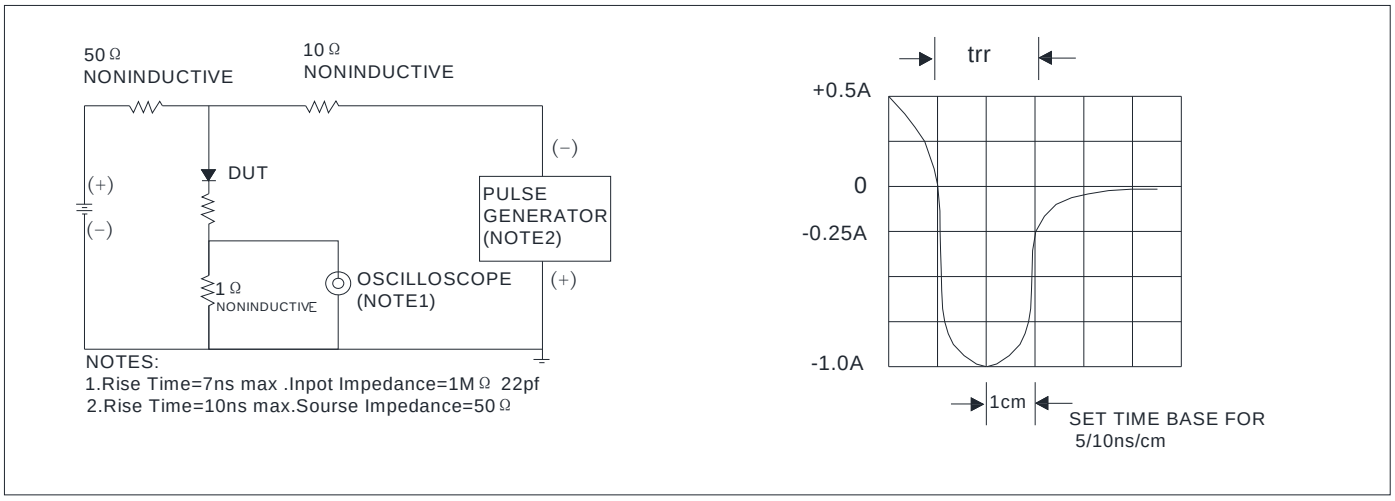
■ （T_a=25 Unless otherwise specified）

Maximum instantaneous forward voltage	V_F	V	I_{FM}=1.0A	1.0			1.3		1.7		
Maximum reverse recovery time	t_{rr}	ns	I_F=0.5A,I_R=1.0A, I_{rr}=0.25A	50					75		
Maximum DC reverse current at rated DC blocking voltage	I_R	μA	T_j=25	5							
			T_j=125	100							
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	17			12		7		

■ （T_a=25 Unless otherwise specified）

	$R_{\theta JA}$									

Typical Thermal resistance

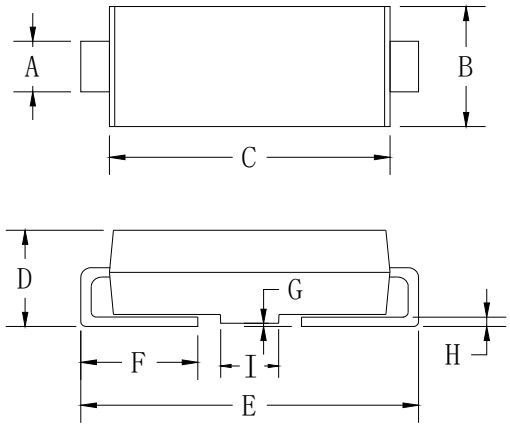


■ (Example)

HS1A-HS1M	F1	Approximate 0.059	5000	/	80000	13” reel
HS1A-HS1M	F2	Approximate 0.059	7500	/	120000	13” reel
HS1A-HS1M	F3	Approximate 0.059	7500	/	60000	13” reel
HS1A-HS1M	F4	Approximate 0.059	1800	14400	57600	7” reel
HS1A-HS1M	F5	Approximate 0.059	2000	16000	64000	7” reel
HS1A-HS1M	F6	Approximate 0.059	5000	/	100000	13” reel

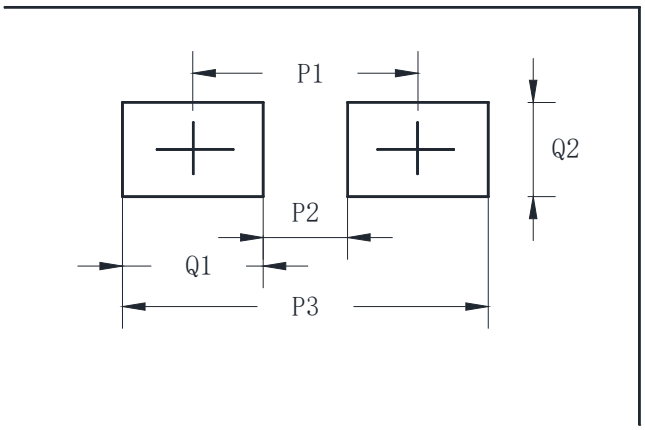
■

DO-214AC(SMA)



Dimensions in millimeters

Dim	Min	Max
A	1.25	1.58
B	2.40	2.83
C	4.00	4.75
D	1.90	2.30
E	4.93	5.28
F	0.76	1.41
G	0.05	0.20
H	0.15	0.31
I	1.70	2.10



Dim	Millimeters
P1	4.00
P2	1.50
P3	6.50
Q1	2.50
Q2	1.70

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