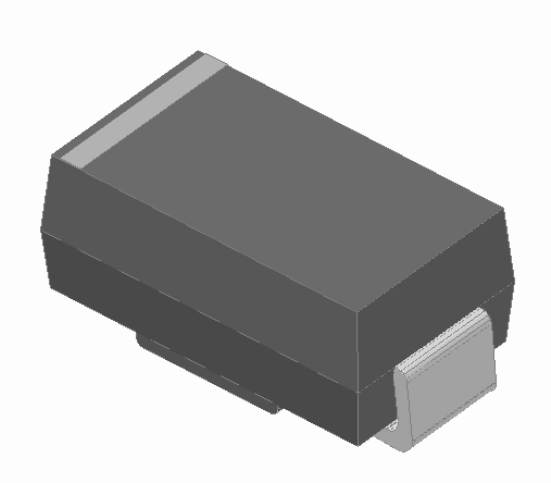
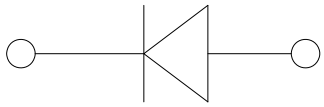
RoHS
COMPLIANT





- 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
- : Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Cathode line denotes the cathode end

■ (Ta=25℃ Unless otherwise specified)

Device marking code			ES1AS	ES1BS	ES1CS	ES1DS	ES1FS	ES1GS	ES1HS	ES1JS
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	V	50	100	150	200	300	400	500	600
Maximum RMS Voltage	V_{RMS}	V	35	70	105	140	210	280	350	420
Maximum DC blocking Voltage	V_{DC}	V	50	100	150	200	300	400	500	600
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	Tj		-55 ~ +150							

■ (Ta=25℃ Unless otherwise specified)

Maximum instantaneous forward voltage	VF	V	I_{FM}=1.0A	0.95	1.3	1.7
Maximum reverse recovery time	t_{rr}	ns	I_F=0.5A,I_R=1.0A, I_{rr}=0.25A	35		
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	15	10	7

■ (T_a=25℃ Unless otherwise specified)

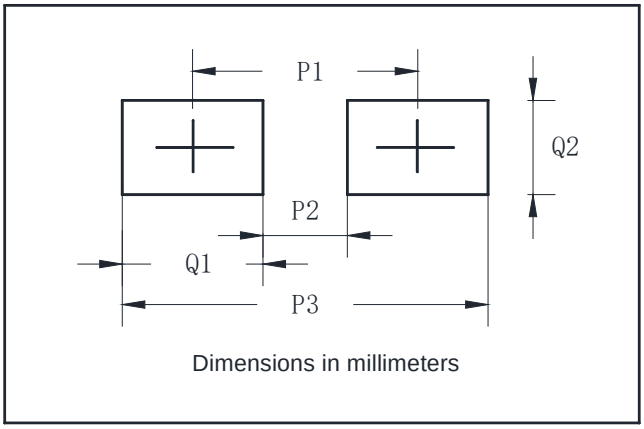
Typical Thermal Resistance	$R_{\theta J-A}$	℃/W	65[1)]								
	$R_{\theta J-L}$		25[1)]								
	$R_{\theta J-C}$		20[1)]								

Note
(1) Thermal resistance from junction to ambientNote
α Thermal Resist ^ 9 α τ ᵀ D%Ž) ή I=O

		.059	5000	/	80000	13” reel
		.059	7500	/	120000	13” reel
		.059	7500	/	60000	13” reel
		.059	1800	14400	57600	7” reel
ES1AS- ES1JS	F5	Approximate 0.059	2000	16000	64000	7” reel
ES1AS- ES1JS	F6	Approximate 0.059	5000	/	100000	13” reel

■

Dim	Min	Max
A	1.25	1.58
B	2.40	2.83
C	4.00	4.75
E	4.93	5.28



Dimensions in millimeters

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

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