YFW 佑风微

PS14S SOD-323HE

SURFACE MOUNTSCHOTTKY RECTIFIERS

Reverse Voltage - 40V

Forward Current - 1.0 A

Pinning

1.Cathode	2.Anode



SOD-323HE

Marking Code	
PS14S	14S

FEATURES

- Metal silicon junction, majority carrier conduction
- Heatsink structure
- Low power loss, high efficiency
- Super Low VF Schottky barrier diodes
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications
- LeadfreeincomplywithEURoHS2011/65/EUdirectives

MECHANICAL DATA

- Case:SOD-323HE
- Terminals: Solderable per MIL-STD-750, Method2026
- Approx. Weight: 5.4mg /0.00019oz

Maximum Ratings (TA = 25 °C unless otherwise noted)

Parameter	Symbols	PS14S	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	40	V
Maximum RMS voltage	V_{RMS}	28	V
Maximum DC Blocking Voltage	V_{DC}	40	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	1.0	A
Peak Forward Surge Current, 8.3ms Single Half Sine-waveSuperimposed On Rated Load	I_{FSM}	15	A
Operating junction temperature range	Tj	125	°C
Storage temperature range	T_{stg}	- 55 to +150	°C

Electrical Characteristics (TA = 25 °C unless otherwise noted)

Parameter	Test Conditions	Symbols	PS14S	Units
Minimum Breakdown voltage	Ta = 25°C,IR=1mA	V_{BR}	40	V
Maximum instantaneous forward voltage	IF=1A,Ta=25	V_F	0.58	V
Maximum DC reverse current at rated DC blocking voltage	Ta = 25°C	I_R	50	uA
Typical junction capacitance	4.0 V, 1 MHz	C_J	60	pF

Fig.1 Forward Current Derating Curve

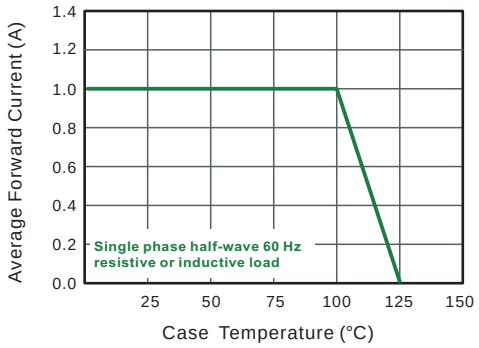


Fig.2 Typical Reverse Characteristics

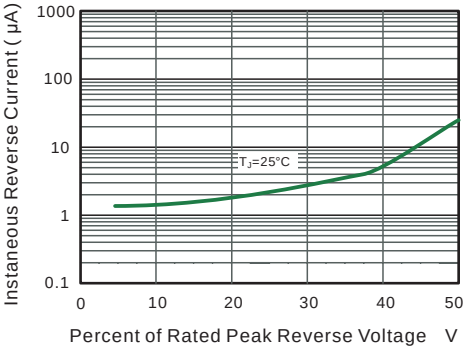


Fig.3 Typical Forward Characteristic

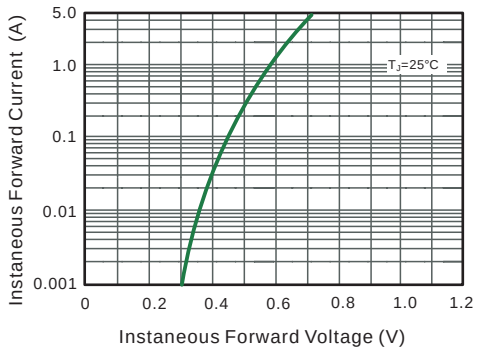


Fig.4 Typical Junction Capacitance

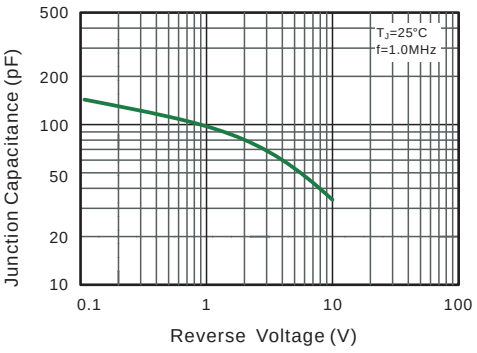
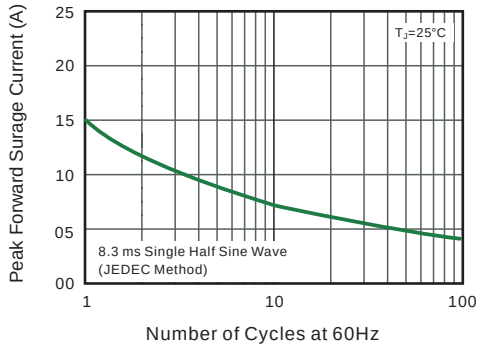
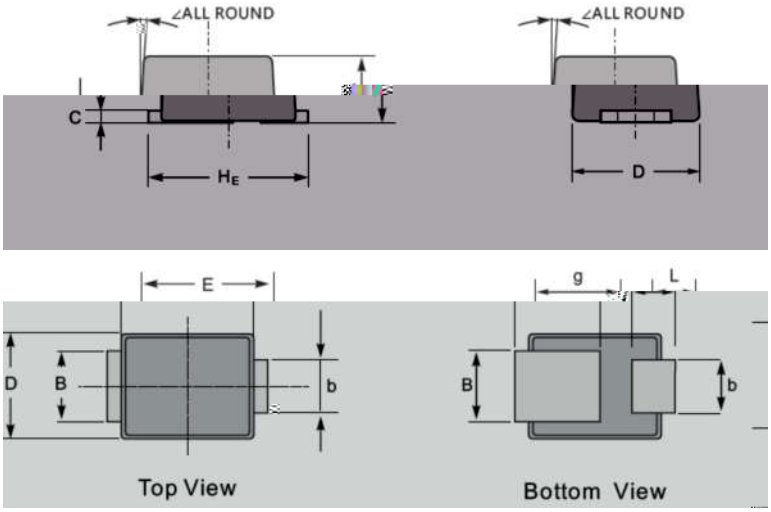


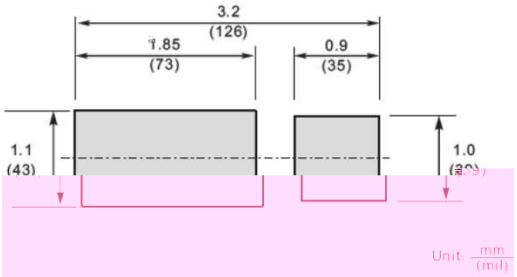
Fig.5 Maximum Non-Repetitive Peak Forward Surage Current



	Tape/Reel,7"reel	3000PCS/Reel 120000PCS/Carton



A	0.57	0.77	22	30
b	0.45	0.75	18	30
B	0.65	0.95	26	37
C	0.10	0.20	4	8
D	1.25	1.45	49	57
E	2.1	2.3	83	91
HE	2.3	2.7	91	106
g	1.1	1.55	43	61
L	0.4	0.8	16	31
∠	12°			



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