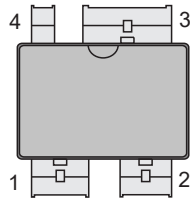


BRIDGE RECTIFIER



HSB Package

PINNING

PIN	DESCRIPTION
1	Input Pin (~)
2	Input Pin (~)
3	Output Anode (+)
4	Output Cathode (-)

Features

- Glass Passivated Chip Junction
- Reverse Voltage - 800 V
- Forward Current - 8A
- High Surge Current Capability
- Designed For Surface Mount Application

Benefits

- Case: HSB
- Terminals: Solderable Per MIL-STD-750
- Approx. Weight: 0.234g / 0.00825oz

Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	HSB08K	Units
Maximum Repetitive Peak Reverse Voltage	VRRM	800	V
Maximum RMS voltage	VRMS	560	V
Maximum DC Blocking Voltage	VDC	800	V
Average Rectified Output Current	Io	8.0	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	IFSM	180	A
I ² t rating for fusing (1ms< t < 8.3ms)	I ² t	134	A ² S
Maximum Forward Voltage at 4.0 A	VF	1.0	V
Maximum DC Reverse Current @TA=25 °C at Rated DC Blocking Voltage @TA=125 °C	IR	5 100	μA
Typical Junction Capacitance (Note1)	Cj	45	pF
Operating and Storage Temperature Range	Tj, Tstg	-55 ~ +175	°C
Typical thermal resistance (Note 2)	RthJC RthJA RthJL	5 25 10	°C/W

Note: 1. Measured at 1MHz and applied reverse voltage of 4 VDC.

2. Thermal resistance from Junction to case, lead and ambient in accordance with JESD-51. Unit mounted on 15mm*12mm*1.6mm AL pad attach 195mm*195mm*10mm steel plate

RATINGS AND CHARACTERISTICS CURVES (TA = 25 °C unless otherwise noted)

Fig.1 Average Rectified Output Current Derating Curve

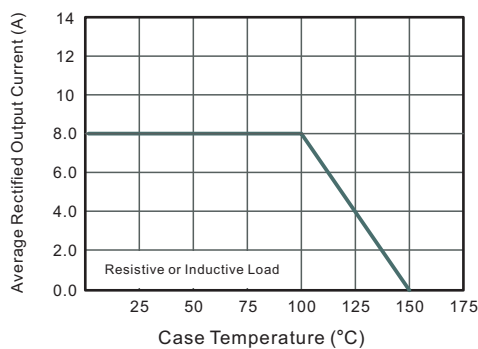


Fig.2 Typical Reverse Characteristics

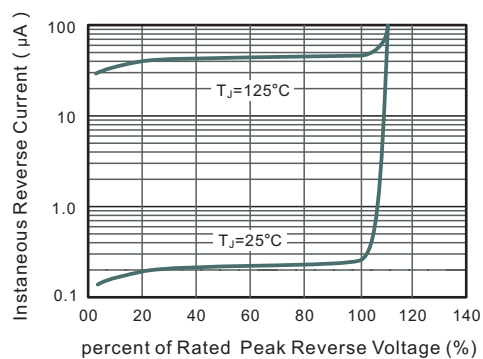


Fig.3 Typical Instantaneous Forward Characteristics

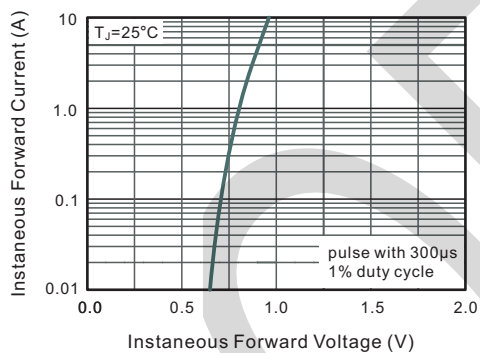


Fig.4 Typical Junction Capacitance

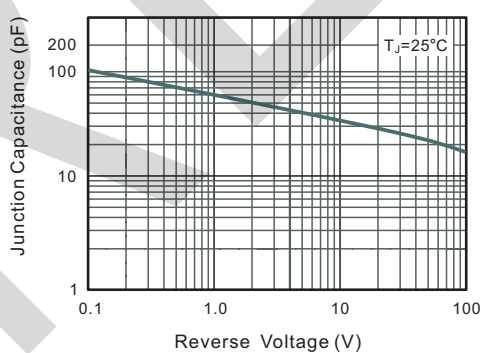
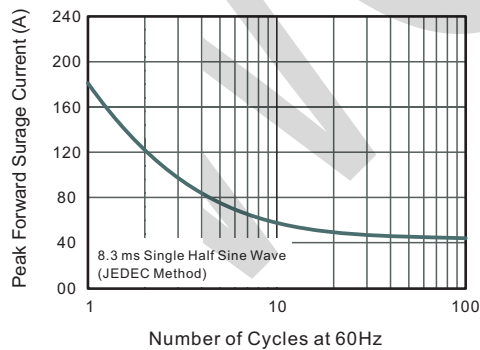
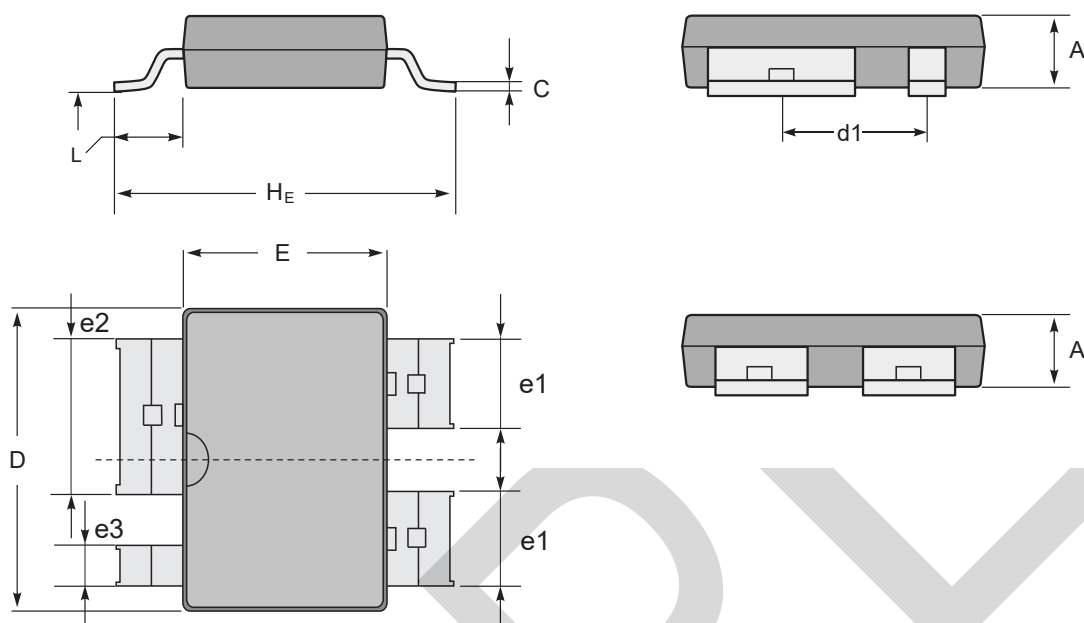


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



PACKAGE OUTLINE DIMENSIONS

HSB



HSB mechanical data

UNIT		A	C	D	E	H _E	e1	e2	e3	d1	L
mm	min	3.3	0.3	19.9	12.6	19.5	5.75	9.2	2.35	9.25	3.05
	max	3.9	0.5	20.9	13.6	20.5	6.35	9.8	2.95	9.85	3.85
mil	min	129.9	11.8	783.5	496.1	767.7	226.4	362.2	92.5	364.2	120.1
	max	153.5	19.8	822.8	535.4	807.1	250.0	385.8	116.1	387.8	151.6

HSB Suggested Pad Layout

