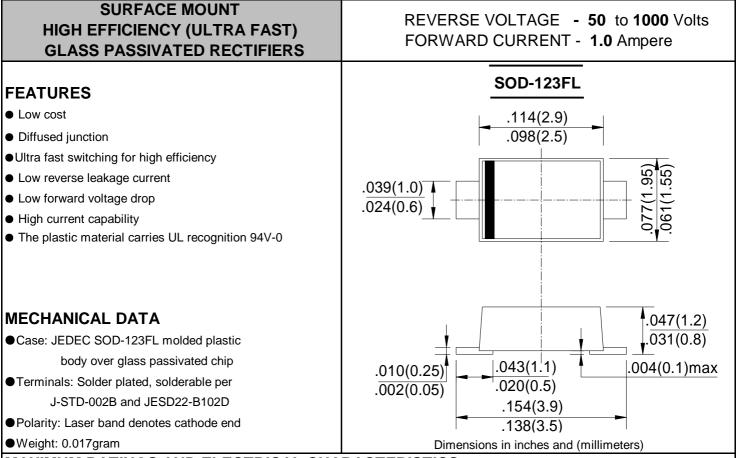


HS1AL thru HS1ML



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	HS1AL	HS1BL	HS1DL	HS1GL	HS1JL	HS1KL	HS1ML	UNIT
	MARKING	H1AL	H1BL	H1DL	H1GL	H1JL	H1KL	H1ML	
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @TA=55 °C	I(AV)	1.0							А
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	IFSM	25						A	
Peak Forward Voltage at 1.0A DC	VF	1.0 1.3			1.7			V	
Maximum DC Reverse Current@TJ=25°Cat Rated DC Blocking Voltage@TJ=100°C	lr	5.0 100							μA
Maximum Reverse Recovery Time(Note 1)	Trr	50 75						nS	
Typical Junction Capacitance (Note2)	CJ	9							pF
Typical Thermal Resistance (Note3)	Reja	180							°C/W
Operating Temperature Range	TJ	-55 to +150							°C
Storage Temperature Range	Tstg	-55 to +150							°C
NOTES: 1 Maggured with IC-0.54 Ip-14 Ipp-0.254									

NOTES: 1.Measured with IF=0.5A,IR=1A,IRR=0.25A.

2.Measured at 1.0 MHz and applied reverse voltage of 4.0V DC

3. Thermal resistance junction to ambient.



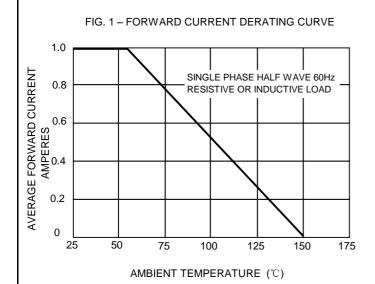
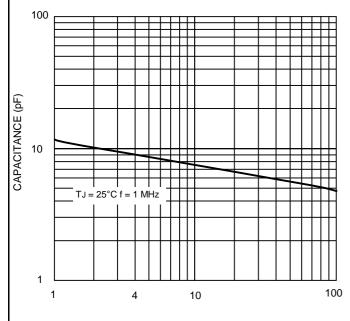
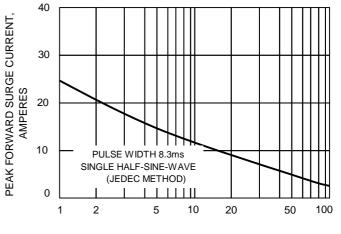


FIG.3 – TYPICAL JUNCTION CAPACITANCE



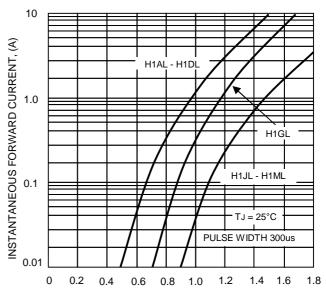
REVERSE VOLTAGE , VOLTS

FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT



NUMBER OF CYCLES AT 60Hz

FIG.4-TYPICAL FORWARD CHARACTERISTICS



INSTANTANEOUS FORWARD VOLTAGE, VOLTS