



Features

- ◊ UL Recognized File # E-326243
- ◊ Glass passivated junction chip.
- ◊ For surface mounted application
- ◊ Low forward voltage drop
- ◊ Low profile package
- ◊ Built-in strain relief, ideal for automatic placement
- ◊ Fast switching for high efficiency
- ◊ High temperature soldering: 260°C/10 seconds at terminals
- ◊ Plastic material used carries Underwriters Laboratory Classification 94V-0
- ◊ Green compound with suffix "G" on packing code & prefix "G" on datecode

Mechanical Data

- ◊ Case: Molded plastic
- ◊ Terminal: Pure tin plated, lead free
- ◊ Polarity: Indicated by cathode band
- ◊ Packing: 12mm tape per EIA STD RS-481
- ◊ Weight: 0.064 grams

Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%

Type Number	Symbol	HS 2AA	HS 2BA	HS 2DA	HS 2FA	HS 2GA	HS 2JA	HS 2KA	HS 2MA	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	300	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	210	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	300	400	600	800	1000	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$					1.5				A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}					50				A
Maximum Instantaneous Forward Voltage (Note 1) @ 1.5A	V_F				1.0		1.3		1.7	V
Maximum Reverse Current @ Rated VR $T_A=25^\circ\text{C}$ $T_A=125^\circ\text{C}$	I_R					5				uA
						100				
Maximum Reverse Recovery Time (Note 2)	T_{rr}				50			75		nS
Typical Junction Capacitance (Note 3)	C_J				50			30		pF
Typical Thermal Resistance (Note 4)	$R_{\theta JA}$				80					°C/W
Operating Temperature Range	T_J				- 55 to + 150					°C
Storage Temperature Range	T_{STG}				- 55 to + 150					°C

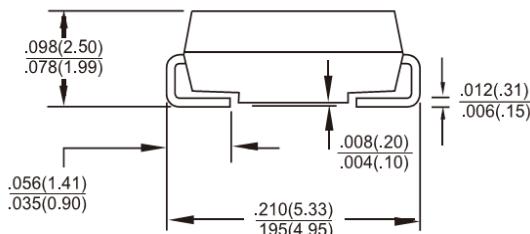
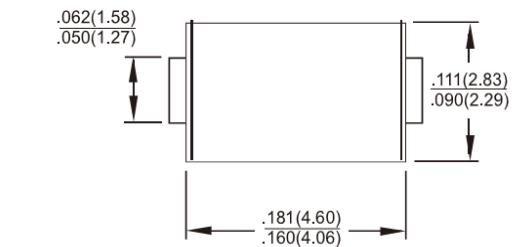
Note 1: Pulse Test with $PW=300$ usec, 1% Duty Cycle

Note 2: Reverse Recovery Test Conditions: $I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $I_{RR}=0.25\text{A}$

Note 3: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.

Note 4: PCB Mount on 5mm x 5mm Copper Pad Area

HS2AA - HS2MA 1.5 AMPS High Efficient Surface Mount Rectifiers SMA/DO-214AC



Dimensions in inches and (millimeters)

Marking Diagram



HS2XA = Specific Device Code
G = Green Compound
Y = Year
M = Work Month

RATINGS AND CHARACTERISTIC CURVES (HS2AA THRU HS2MA)

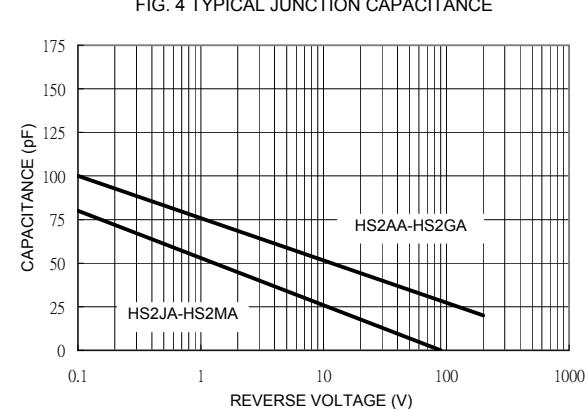
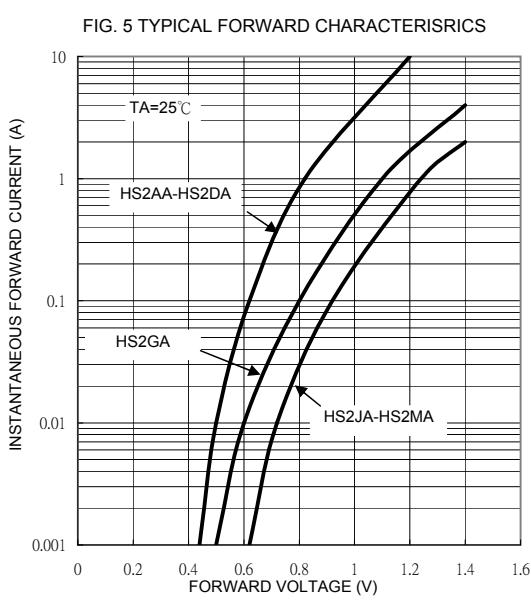
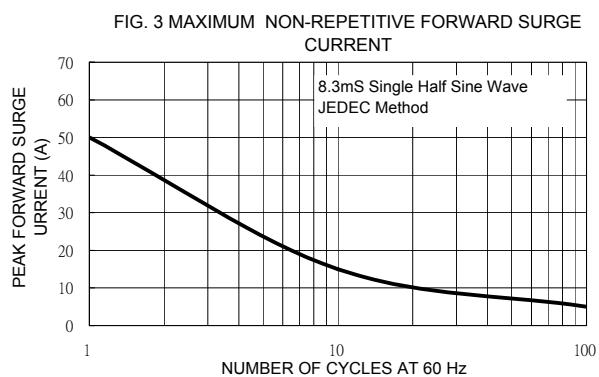
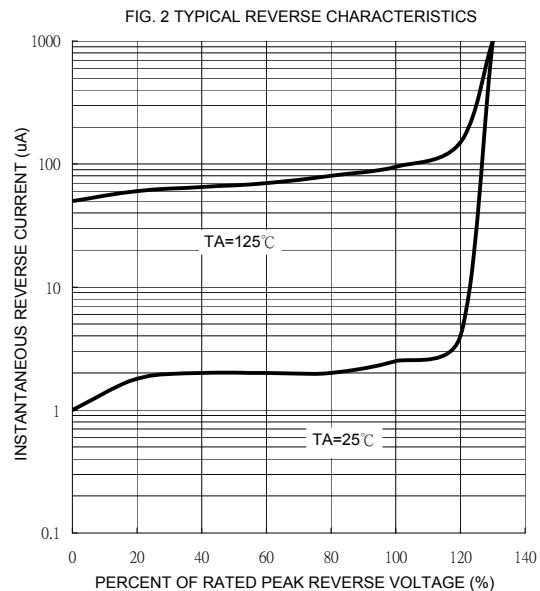
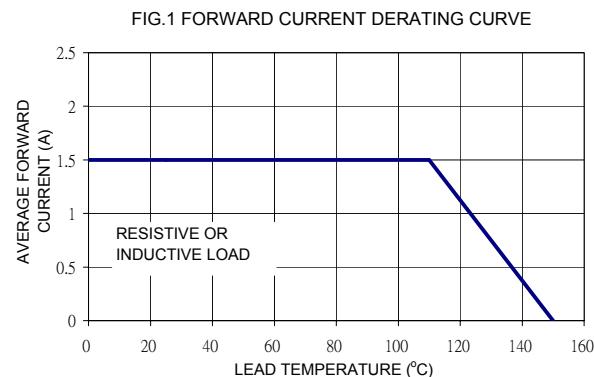
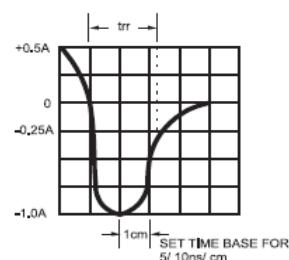
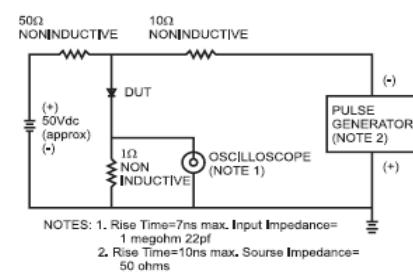


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



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