HS2A /UF2A THRU HS2M//UF2M

SURFACE MOUNT
HIGH EFFICIENCY (ULTRA FAST)
GLASS PASSIVATED RECTIFIERS

REVERSE VOLTAGE
50 to 1000 Volts
Forward Current
2.0 Amperes

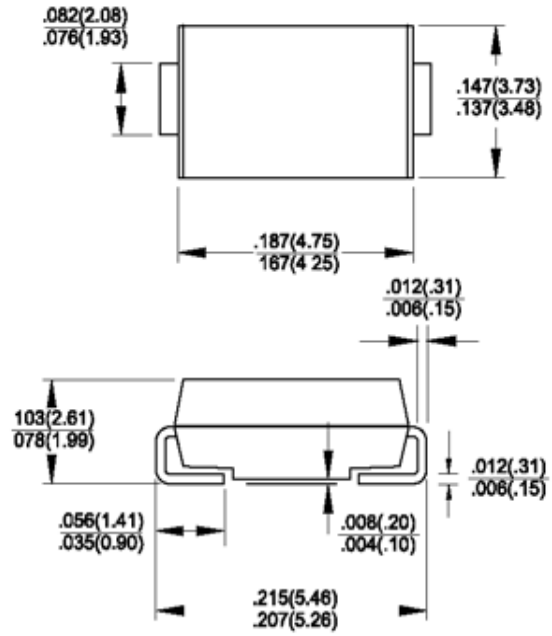
FEATURES

- Low cost
- Diffused junction
- Ultra fast switching for high efficiency
- Low reverse leakage current
- Low forward voltage drop
- High current capability
- The plastic material carries UL recognition 94V-0

MECHANICAL DATA

- Case： Molded Plastic
- Polarity:Color band denotes cathode
- Weight: 0.003 ounces,0.093 grams
- Mounting position: Any

DO-214AA (SMB)



Dimensions in inches and (millimeters)

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	HS2A / UF2A	HS2B / UF2B	HS2D / UF2D	HS2G / UF2G	HS2J / UF2J	HS2K / UF2K	HS2M / UF2M	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T_A =55 ℃	$I_{(AV)}$	2.0							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	I_{FSM}	60							A
Peak Forward Voltage at 2.0A DC	V_F	1.0			1.3	1.7			V
Maximum DC Reverse Current @TJ=25℃ at Rated DC Blocking Voltage @TJ=100℃	I_R	5.0 100							μA
Maximum Reverse Recovery Time(Note 1)	T_{RR}	50				75			nS
Typical Junction Capacitance (Note2)	C_J	50				30			pF
Typical Thermal Resistance (Note3)	$R_{\theta JA}$	25							℃/W
Operating Temperature Range	T_J	-55 to +150							℃
Storage Temperature Range	T_{STG}	-55 to +150							℃

NOTES: 1.Measured with I_F=0.5A，I_R=1A ，I_{RR}=0.25A

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

3.Thermal resistance junction to ambient

RATING AND CHARACTERISTIC CURVES
HS2A /UF2A THRU HS2M/UF2M

FIG. 1 – FORWARD CURRENT DERATING CURVE

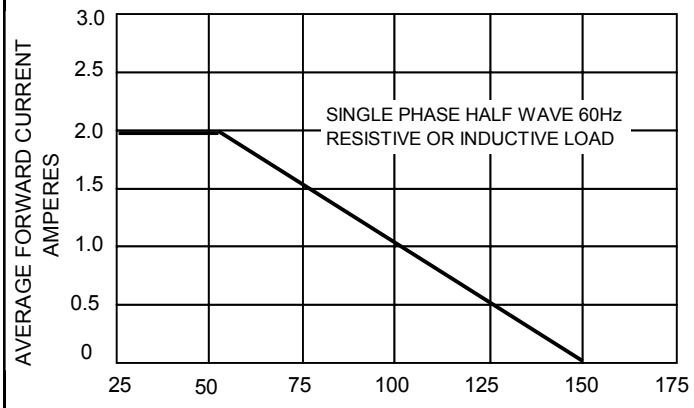


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

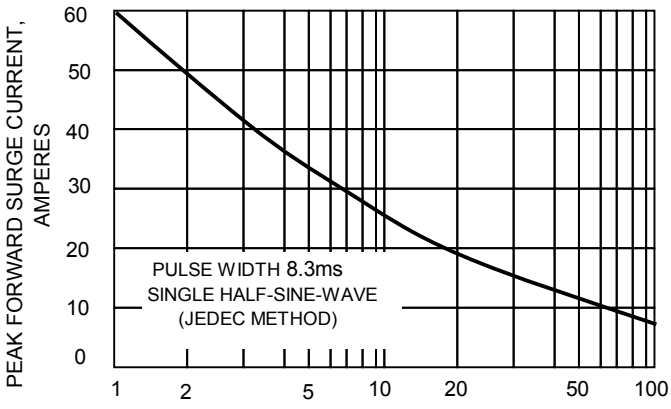


FIG.3 – TYPICAL JUNCTION CAPACITANCE

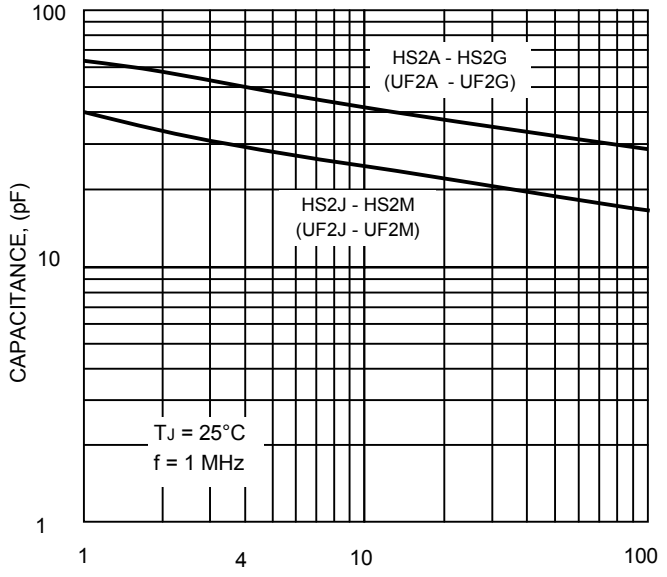


FIG.4-TYPICAL FORWARD CHARACTERISTICS