



HS2X / UF2X SERIES

Surface Mount High Efficiency (Ultra Fast) Glass Passivated Rectifiers

Reverse Voltage - 50 to 1000 Volts Forward Current - 2.0 Ampere

Features

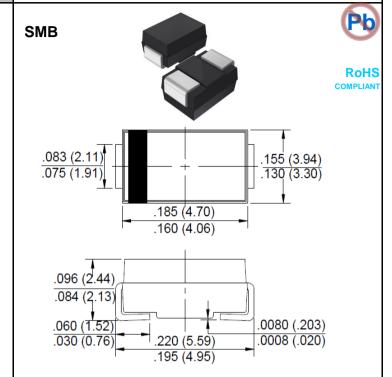
- Low cost
- Ultra fast switching for high efficiency
- Low reverse leakage current
- Low forward voltage drop
- High current capability
- The plastic material carries UL recognition 94V-0

Mechanical Data

- Case: JEDEC SMB Molded plastic
- Polarity: Color band denotes cathode
- Mounting position: Any

Applications

 For use in SMPS, high frequency inverters, PWM and polarity protection applications



Package Outline Dimensions in Inches (Millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%.

Characteristics	Symbol	HS2A	HS2B	HS2D	HS2G	HS2J	HS2K	HS2M	- Unit
	Symbol	UF2A	UF2B	UF2D	UF2G	UF2J	UF2K	UF2M	
Maximum Repetitive 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 ℃	I(AV)	2.0							Α
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,	IFSM				60				
Superimposed on Rated Load (JEDEC Method)	IFOIVI	00							Α
Peak Forward Voltage at 2.0 A DC	VF	1.0 1.3 1.7						V	
Maximum DC Reverse Current at Rated @TJ=25℃	ln.	5.0 100							μА
DC Blocking Voltage @TJ=100°C	II								
Maximum Reverse Recovery Time (Note 1)	Trr	50				75			nS
Typical Junction Capacitance (Note2)	Cl	50				30			pF
Operating Junction Temperature Range	TJ	-55 to +150						$^{\circ}$	
Storage Temperature Range	Tstg	-55 to +150							$^{\circ}$

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

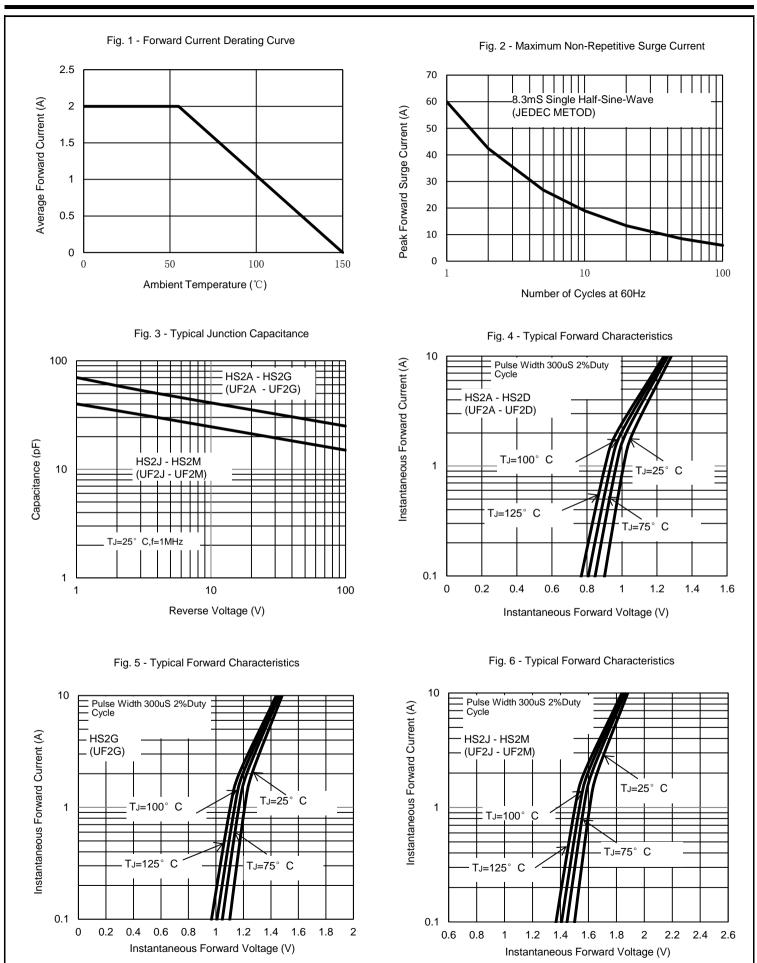
- 2.Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.
- 3. The typical data above is for reference only. (

HS2*/UF2*-13-00-00/01 Rev. 9, 22-Apr-2019

The curve above is for reference only.



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Rev. 2, 16-Mar-2017