HS1A /UF1A THRU HS1M/UF1M

SURFACE MOUNT HIGH EFFICIENCY (ULTRA FAST) GLASS PASSIVATED RECTIFIERS

REVERSE VOLTAGE 50 to 1000 Volts Forward Current 1.0 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

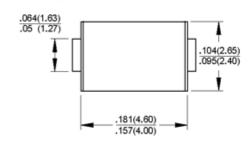
MECHANICAL DATA

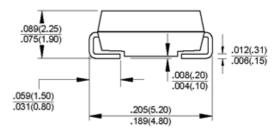
●Case: Molded Plastic

Polarity: Indicated by cathode bandWeight: 0.002 ounces,0.064 grams

Mounting position: Any

DO-214AC (SMA)





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	HS1A	HS1B	HS1D	HS1G	HS1J	HS1K	HS1M	UNIT
		UF1A	UF1B	UF1D	UF1G	UF1J	UF1K	UF1M	
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 ℃	I(AV)	1.0							А
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	IFSM	30							А
Peak Forward Voltage at 1.0A DC	VF	1.0 1.3			1.7			V	
Maximum DC Reverse Current @TJ=25℃ at Rated DC Blocking Voltage @TJ=100℃	lR	5.0 100						μΑ	
Maximum Reverse Recovery Time(Note 1)	Trr	50 75					nS		
Typical Junction Capacitance (Note2)	Сл	20					10		pF
Typical Thermal Resistance (Note3)	RөJA	25						°C/W	
Operating Temperature Range	TJ	-55 to +150							$^{\circ}\!$
Storage Temperature Range	Tstg	-55 to +150							$^{\circ}\!\mathbb{C}$

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.

RATING AND CHARACTERISTIC CURVES HS1A /UF1A THRU HS1M/UF1M

