

ULTRA FAST RECOVERY GLASS PASSIVATED RECTIFIERS

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[Http://www.100y.com.tw](http://www.100y.com.tw)

FEATURES:

- plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- or surface mounted applications
- Ultra fast switching for high efficiency
- low reverse leakage
- built-in strain relief, ideal for automated placement
- high forward surge current capability
- high temperature soldering guaranteed: 50°C/10 seconds at terminals

MECHANICAL DATA

Case: JEDEC DO-214AA molded plastic body

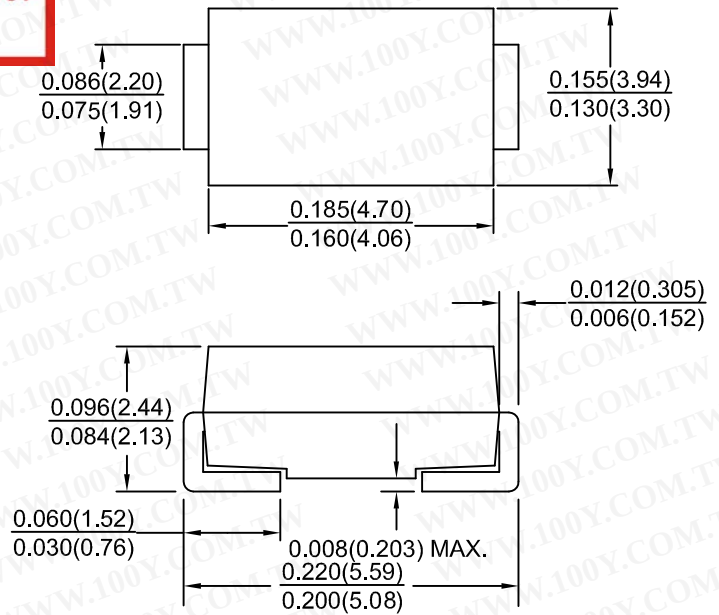
Terminals: Solder Plated, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.005 ounce, 0.138 grams

SMB/DO-214AA



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25° C ambient temp. unless otherwise specified.

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

For capacitive load, derate current by 20 %.

Characteristic	SYMBOLS	UF1A	UF1B	UF1D	UF1G	UF1J	UF1K	UF1M	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified cUrrrent at T _L =55°C	I _(AV)	1.0							Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	30.0							Amps
Maximum instantaneous forward voltage at 1.0A	V _F	1.0			1.4	1.7			Volts
Maximum DC reverse current T _A =25°C at rated DC blocking voltage T _A =100 °C	I _R	5.0 50.0							u A
Maximum reverse recovery time (NOTE 1)	t _{rr}	50				75			ns
Typical junction capacitance (NOTE 2)	C _J	15.0							pF
Typical thermal resistance (NOTE 3)	R _{qJA}	50.0							°C/W
Operating junction and storage temperature range	T _J ,T _{STG}	-65 to +150							°C

Note: 1.Reverse recovery condition $I_F=0.5\text{A}, I_R=1.0\text{A}, t_{rr}=0.25\text{A}$
 2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.
 3.P.C.B. mounted with 0.2x0.2 (5.0x5.0mm) copper pad areas

RATINGS AND CHARACTERISTIC CURVES UF1A THRU UF1M

