

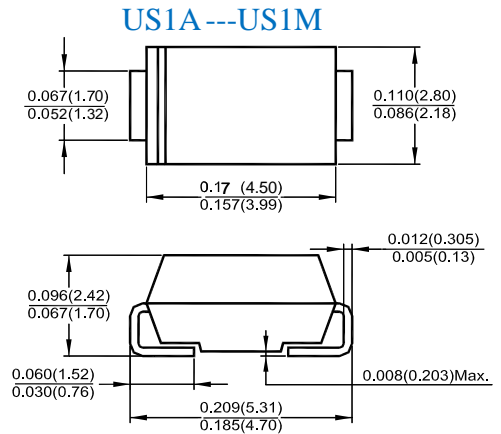
FAST RECOVERY RECTIFIERS

FEATURES

- For surface mount applications
- Low profile package
- Built-in strain relief
- Easy pick and place
- Ultrafast recovery times for high efficiency
- Plastic package has Underwriters Laboratories Flammability Classification 94V-0

MECHANICAL DATA

- SMA (DO-214AC) molded plastic
- Polarity: Color band denotes cathode end



Dimensions in inches and (millimeters)
DO-214AC (SMA)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings 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%.

Parameter	Symbols	US1A	US1B	US1D	US1G	US1J	US1K	US1M	Unit
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 at T _L = 100 °C	I _{F(AV)}	1							A
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	30							A
Maximum Forward Voltage at 1 A	V _F	1		1.4		1.7		V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	5 100							μA
Typical Junction Capacitance at 4 V, 1 MHz	C _J	17							pF
Maximum Reverse Recovery Time at I _F = 0.5 A, I _R = 1 A, I _{TR} = 0.25 A	t _{rr}	50				75			ns
Typical Thermal Resistance ¹⁾	R _{JA}	50							°C/W
Operating and Storage Temperature Range	T _J ,T _S	- 55 to + 150							°C

1)Mounted on P.C.B. with 0.2 X 0.2" (5 X 5 mm) copper pad areas.

US1A--US1M Typical Characteristics

