US3A THRU US3M



US3A THRU US3M 3.0Amp Ultra Fast Surface Mount Rectifiers

General description

3.0Amp Ultra Fast Surface Mount Rectifiers

FEATURES

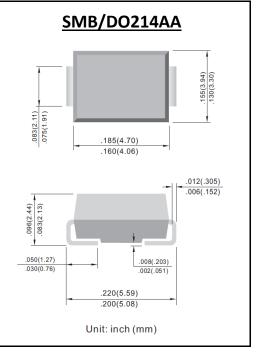
- The plastic package carries Underwriters Laboratory
- Flammability Classification 94V-0
- Idea for printed circuit board
- · Glass passivated Junction chip
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed 250 C/10 seconds at terminals

MECHANICAL DATA

Case: SMB

• Terminals: Solderable per MIL-STD-750, Method 2026

Weight: 0.0035 ounce, 0.098 grams



Absolute Maximum Ratings(Ta=25°C unless otherwise specified)

Parameter	Symbols	US3A	US3B	US3D	US3G	US3J	US3K	US3M	Units
Marking Code	Mark	US3A	US3B	US3D	US3G	US3J	US3K	US3M	N/A
Maximum Repetitive 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	I _{F(AV)}	3							А
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	Ігѕм	100							А
Maximum Instantaneous Forward Voltage at 1 A	V _F	1.0 1.4 1.7						V	
Maximum DC Reverse Current $T_a = 25 ^{\circ}\text{C}$ at Rated DC Blocking Voltage $T_a = 100 ^{\circ}\text{C}$	I _R	5 500							μА
Maximum Reverse Recovery Time(Note 1) TJ=25°C	Trr	50 75					nS		
Typical Junction Capacitance (Note 2)	C _j	65							pF
Maximum Thermal Resistance(Note 3) RθJA	Reja	85							°C/W
Operating and Storage Temperature Range	Tj, Tstg	-55 ~ +150							°C

NOTES: 1. Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, Irr=0.25A

2. Measured at 1 MHz and applied Vr = 4.0 volts.

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Ratings And Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

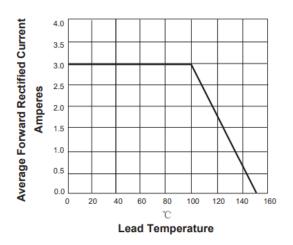


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

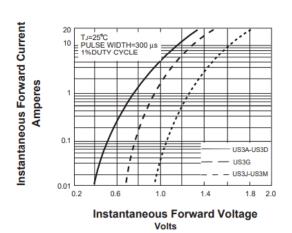


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

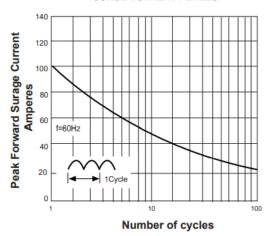
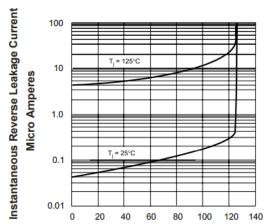


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



Percent Of Rated Peak Reverse Voltage(%)

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