US2A THRU US2M



US2A THRU US2M

2.0Amp Ultra Fast Surface Mount Rectifiers

General description

2.0Amp Ultra Fast Surface Mount Rectifiers

FEATURES

- For surface mounted applications
- Low reverse leakage
- Built-in strain relief
- Easy pick and place
- Ultrafast recovery times for high efficiency.
- Plastic package has Underwriters Laboratory
- Flammability Classification 94V-0
- Glass passivated Junction chip
- Both normal and Pb free product are available

MECHANICAL DATA

- Case: SMB
- Terminals: Solderable per MIL-STD-750, Method 2026
- Weight: 0.003 ounce, 0.093 grams

$\frac{0.000}{(1000)} = \frac{0.000}{(1000)} = \frac{0.012(.305)}{.006(.152)}$

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

Parameter	Symbols	US2A	US2B	US2D	US2G	US2J	US2K	US2M	Units
Marking Code	Mark	US2A	US2B	US2D	US2G	US2J	US2K	US2M	N/A
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	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current	F(AV)	2						A	
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	IFSM	50						A	
Maximum Instantaneous Forward Voltage at 1 A	VF	1.0 1.3 1.7						V	
Maximum DC Reverse Current $T_a = 25 \ ^{\circ}C$ at Rated DC Blocking Voltage T_a =100 \ ^{\circ}C	I _R	10 500							μA
Maximum Reverse Recovery Time(Note 1) TJ=25°C	Trr	50				75			nS
Typical Junction Capacitance (Note 2)	Cj	50							pF
Maximum Thermal Resistance(Note 3) RθJA	Reja	20							°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

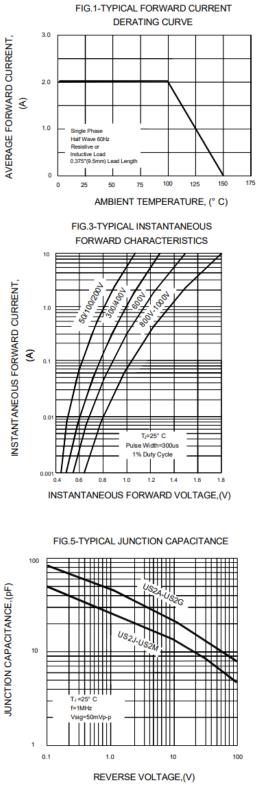
2. Measured at 1 MHz and applied Vr = 4.0 volts.

SMB/DO214AA

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Ratings And Characteristic Curves



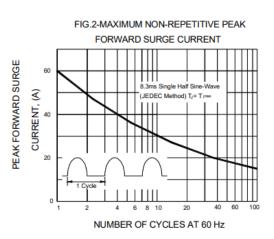
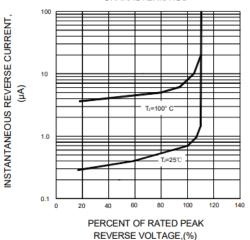
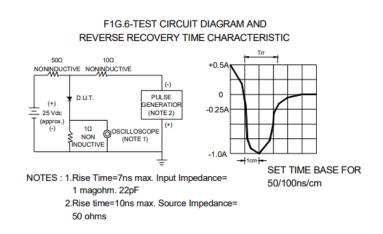


FIG.4-TYPICAL REVERSE CHARACTERISTICS





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