US1A-US1M

1.0AMP. Surface Mount High Efficient Rectifiers



Features

- ♦ Glass passivated junction chip
- ♦ For surface mounted application
- Low profile package
- ♦ Built-in strain relief
- Ideal for automated placement
- ♦ Easy pick and place
- Ultrafast recovery time for high efficiency
- ♦ Low forward voltage, low power loss
- High temperature soldering guaranteed: 260°C/10 seconds on terminals
- Plastic material used carries Underwriters Laboratory Classification 94V0

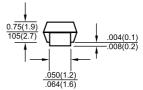
Mechanical Data

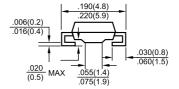
♦ Cases: Molded plastic

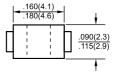
Polarity: Indicated by cathode band

♦ Weight: 0.064 gram

SMA/DO-214AC







Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating 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%

Type Number	Symbol	US1A	US1B	US1D	US1G	US1J	US1K	US1M	Units
Maximum Recurrent 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 @ T _L =110 °C	I _(AV)				1.0				Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}				30				Α
Maximum Instantaneous Forward Voltage @ 1.0A	V _F	1.0 1.7						V	
Maximum DC Reverse Current @ T _A =25 °C at Rated DC Blocking Voltage @ T _A =125 °C	I _R	5.0 150							uA uA
Maximum Reverse Recovery Time (Note 1)	Trr	50					75		nS
Typical Junction Capacitance (Note 2)	Cj		1	5			10		pF
Maximum Thermal Resistance (Note 3)	$R_{\theta JA}$	75							00.004
	$R_{\theta JL}$	27						°C/W	
Operating Temperature Range	TJ	-55 to +150							°C
Storage Temperature Range	Tstg	-55 to + 150							°C

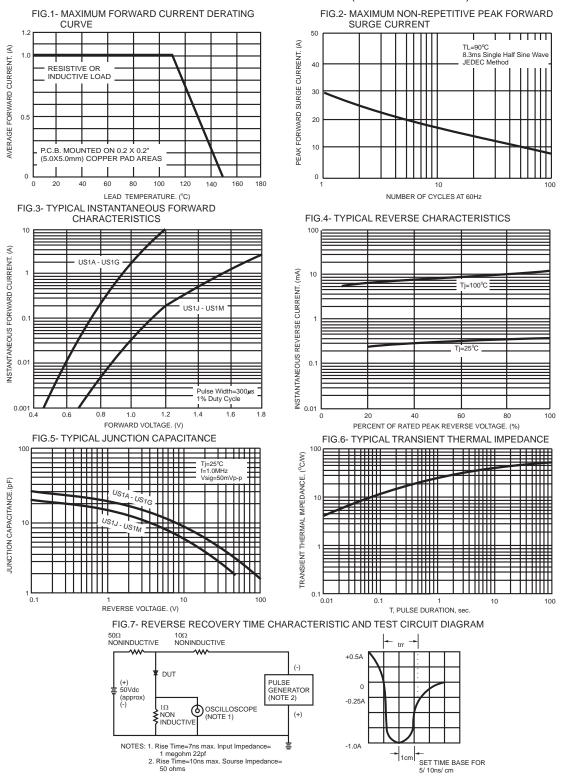
Notes: 1. Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A

- 2. Measured at 1 MHz and Applied VR=4.0 Volts
- 3. P.C.B. Mounted on 0.2 x 0.2" (5.0 x 5.0mm) Copper Pad Area.

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RATINGS AND CHARACTERISTIC CURVES (US1A THRU US1M)



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481235F RRE02VS6SGTR 067907F MS306 70HF40 T110HF60 T85HFL60S02 US2JFL-TP A1N5404G-G CRS04(T5L,TEMQ)

CRS12(T5L,TEMQ) ACGRB207-HF CLH07(TE16L,Q) CLH03(TE16L,Q) ACGRC307-HF ACEFC304-HF NTE6356 NTE6359 85HFR60
40HFR60 70HF120 85HFR80 D126A45C SCF7500 D251N08B SCHJ22.5K SM100 SCPA2 SDHD5K VS-12FL100S10 ACGRA4001-HF ACURA107-HF D1821SH45T PR D1251S45T NTE6358 NTE5850 NTE5819 NTE5837 NTE5892