

US5A THRU US5M 5.0Amp Ultra Fast Surface Mount Rectifiers

General description

5.0Amp Ultra Fast Surface Mount Rectifiers

FEATURES

- For surface mounted applications
- · Low profile package
- Glass Passivated Chip Junction
- · Superfast reverse recovery time
- Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

Case: SMC

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

Weight: 0.22g / 0.0077oz

SMC/DO-214AB (657)0027 (280 (7.11) .280 (7.11) .260 (6.60) .012 (.305) .006 (.152)

Unit: inch (mm)

.320 (8.13)

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

Parameter	Symbols	US5A	US5B	US5D	US5G	US5J	US5K	US5M	Units
Marking Code	Mark	US5A	US5B	US5D	US5G	US5J	US5K	US5M	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)}	5							А
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	Ігѕм	120							А
Maximum Instantaneous Forward Voltage at 1 A	V _F	1.0 1.3 1.65						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	50							pF
Maximum Thermal Resistance(Note 3) RθJA	Reja	35							°C/W
Operating and Storage Temperature Range	Tj, Tstg	-55 ~ +150							°C

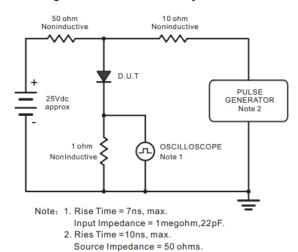
NOTES: 1. Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, Irr=0.25A

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



Ratings And Characteristic Curves

Fig.1 Reverse Recovery Time Characteristic And Test Circuit Diagram



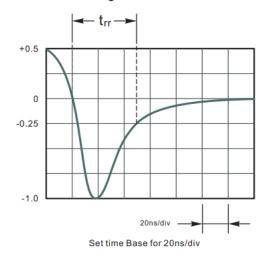
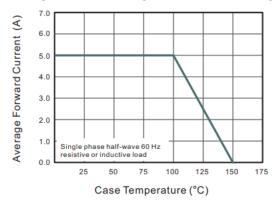


Fig.2 Maximum Average Forward Current Rating



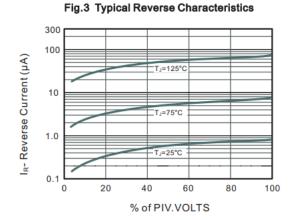




Fig.4 Typical Forward Characteristics

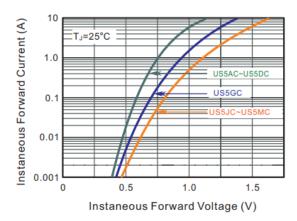


Fig.6 Maximum Non-Repetitive Peak Forward Surage Current

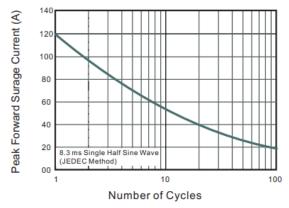
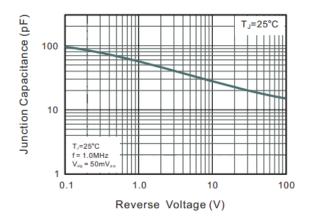


Fig.5 Typical Junction Capacitance





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