

SCM SMD Rectifier M1-M7

Semec

RoHS

Features

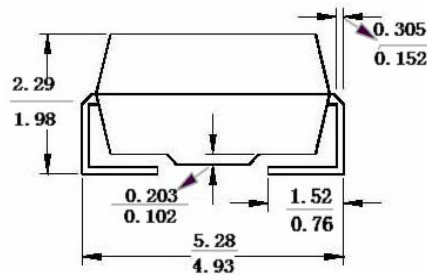
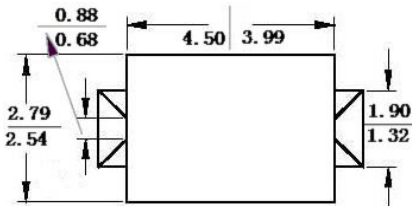
- Low profile package
- Built-in strain relief
- High surge current capability
- Ideal for surface mount pick and place application
- High temperature soldering guaranteed: 260oC/10sec/at terminal



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Specifications

Terminal	Plated leads solderable per MIL-STD 202E, method 208C
Mounting Position	Any
Case	Molded with UL-94 Class V-O recognized flame retardant epoxy
Polarity	Color band denotes cathode
Package	SMA (DO-21A4)
Packing	Tape & Reel (5000pcs/ reel)



Unit: mm

Ratings	Symbol	M1	M2	M3	M4	M5	M6	M7	Units
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 @TL=100oC	$I_{(AV)}$	1.0							A
Peak Forward Surge Current (8.3ms single half sine-wave superimposed on rated load)	I_{FSM}	30							A
Maximum instantaneous forward voltage at 1.0A	V_F	1.1							V
Maximum DC Reverse Current $T_a=25oC$ μA (at rated DC blocking voltage) $T_a=125oC$	I_R	5.0 200							μA μA
Typical Junction Capacitance (Measured at 1.0 MHz and applied voltage of 4.0Vdc)	C_J	15							PF
Typical Thermal Resistance (Thermal resistance from junction to terminal mounted on 5x5mm copper pad area)	R_{QJA}	27							$^{\circ}C/W$
Storage and Operation Junction Temperature	T_J, T_{STG}	-65 to +150							$^{\circ}C$

Remark:

(Single-phase, half-wave, 60Hz, resistive or inductive load rating at 25oC, unless otherwise stated, for capacitive load, derate current by 20%)

* The spec is subject to change without notice. Please contact us if any further queries.