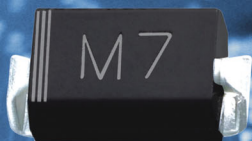
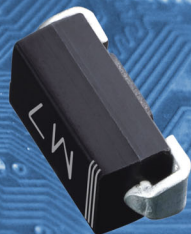
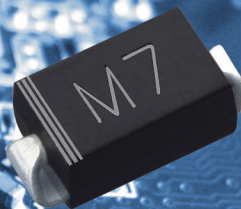


Suntan® Technology Company Limited



SMD RECTIFIER M7



THE MOST COMPREHENSIVE RECTIFIER

Suntan offers the broadest line of innovative surface mount general rectifier -- M7.

M1 thru M7 reverse voltage ranges from 50 to 1000 Volts with low reverse leakage.

The M7 provides outstanding quality at a competitive price in the market.

We are making it our best-selling rectifier.

Our M7 will satisfy all of your most demanding applications.

M1 THRU M7

SURFACE MOUNT GENERAL RECTIFIER

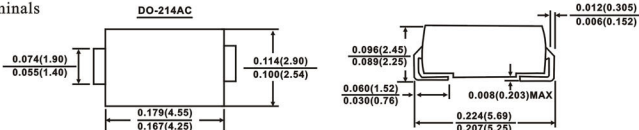
Reverse Voltage -50 to 1000 Volts Forward Current -1.0 Ampere

FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Low reverse leakage
- Built-in strain relief, ideal for automated placement
- High forward surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds at terminals

MECHANICAL DATA

Case : JEDEC DO-214AC molded plastic body
 Terminals : Solder plated solderable per MIL-STD-750, Method 2026
 Polarity : Color band denotes cathode end
 Mounting Position : Any
 Weight : 0.003 ounce 0.093 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
 Single phase half-wave 60HZ resistive or inductive load, for capacitive load current derate by 20%.

	SYMBOLS	M1	M2	M3	M4	M5	M6	M7	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current at $T_J=110^\circ\text{C}$	$I_{(AV)}$	1.0							AMP
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	30.0							AMPS
Maximum instantaneous forward voltage at 1.0A	V_F	1.1							VOLTS
Maximum DC reverse current $T_A=25^\circ\text{C}$ at rated DC blocking voltage $T_A=100^\circ\text{C}$	I_R	5.0 50.0							μA
Typical junction capacitance (NOTE 1)	C_J	15.0							pF
Typical thermal resistance (NOTE 2)	$R_{\theta JA}$	75.0							$^\circ\text{C/W}$
Operating junction and storage temperature range	T_J, T_{STG}	-55 to +150							$^\circ\text{C}$

Note : 1. Measured at 1 MHz and applied reverse voltage of 4.0V D.C.
 2. P.C.B. mounted with 0.2×0.2 " (5.0x5.0mm) copper pad areas

RATINGS AND CHARACTERISTIC CURVES M1 THRU M7

