

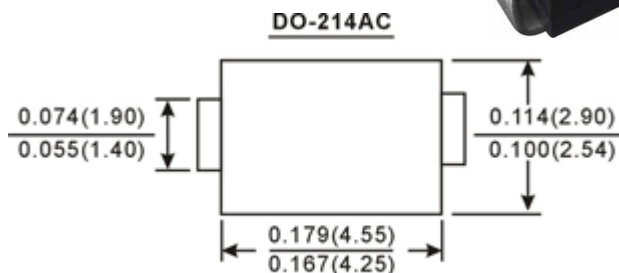
## M1 THRU M7

## 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

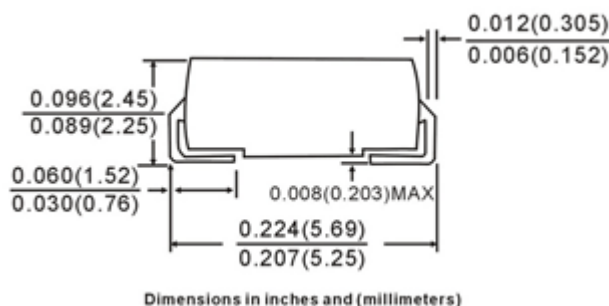
Case : JEDEC DO-214AC molded plastic body

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

Raings at 25°C ambient temperature unless otherwise specified

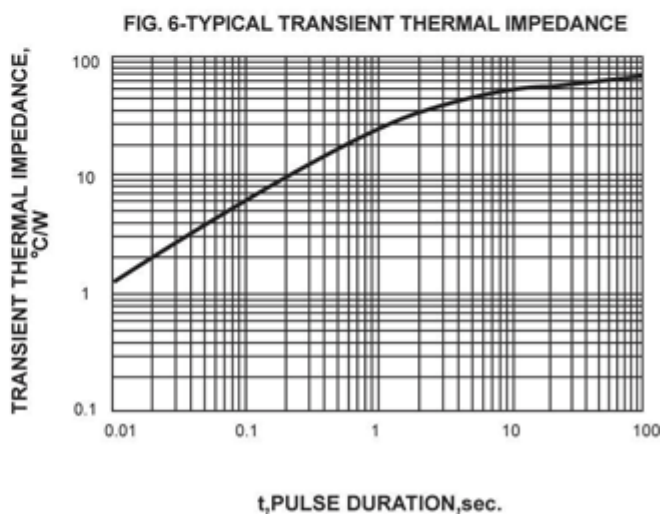
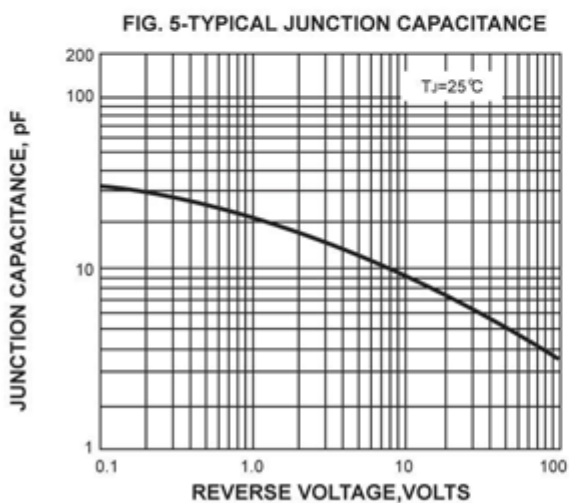
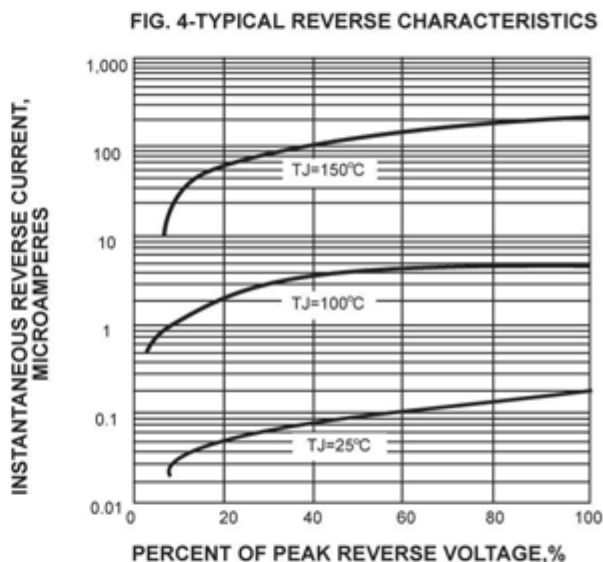
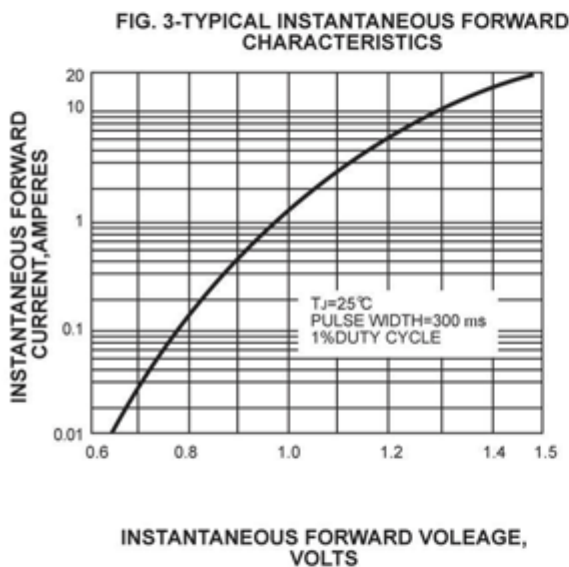
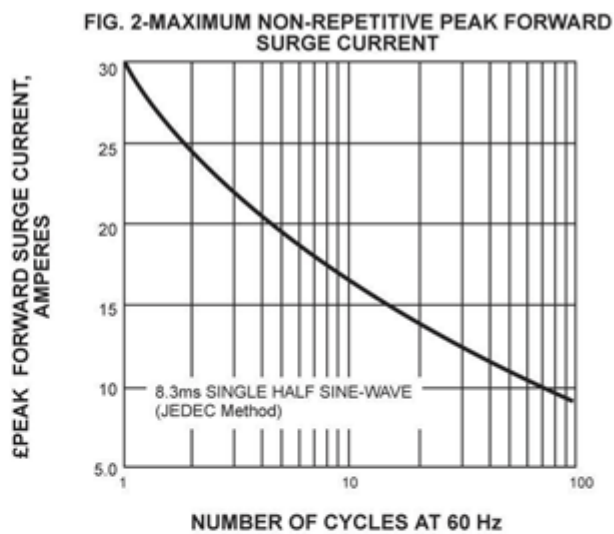
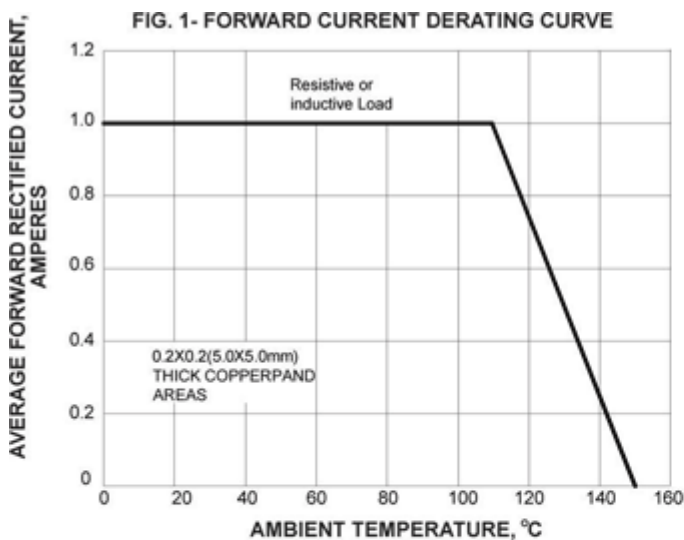
Single phase half-wave 60HZ resistive or inductive load ,for capacitive load current derate by 20%

	SYMBOLS	M1	M2	M3	M4	M5	M6	M7	UNITS
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current at T <sub>L</sub> =110°C	I <sub>(AV)</sub>	1.0							AMP
Peak forward surge current 8.3ms single Half sine-wave superimposed on rated toad (JEDEC Method)	I <sub>FSM</sub>	30.0							AMPS
Maximum instantaneous forward voltage at 1.0A	V <sub>F</sub>	1.1							VOLTS
Maximum DC reverse current T <sub>A</sub> =25°C at rated DC blocking voltage T <sub>A</sub> =100°C	I <sub>R</sub>	5.0 50.0							μA
Typical junction capacitance (NOTE 1)	C <sub>J</sub>	15.0							pF
Typical thermal resistance (NOTE 2)	R <sub>qJA</sub>	75.0							°C/W
Operating junction and storage temperature range	T <sub>J</sub> , T <sub>STG</sub>	-55 to +150							°C

Note :1. Measured at 1 MHZ and applied reverse voltage of 4.0V D.C

2. P.C.B mounted with 0.2x0.2 " (5.0x5.0mm) copper pad areas

RATINGS AND CHARACTERISTIC CURVES M1 THRU M7



Note: Specification are subject to change without notice. For more detail and update, please visit our website.