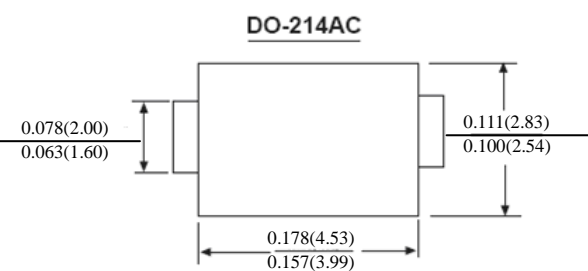
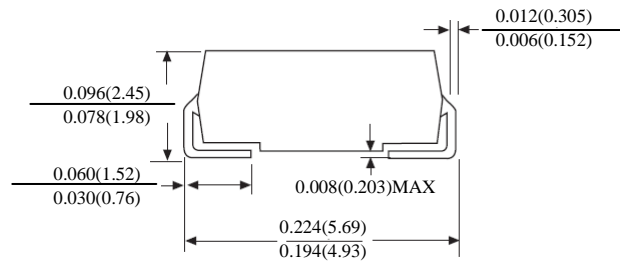


M1 THRU M7

SURFACE MOUNT GENERAL RECTIFIER

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

<p>FEATURES</p> <ul style="list-style-type: none">• 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	 <p>DO-214AC</p> <p>Dimensions in inches and (millimeters):</p> <ul style="list-style-type: none">Terminal width: 0.078(2.00) / 0.063(1.60)Terminal height: 0.111(2.83) / 0.100(2.54)Package width: 0.178(4.53) / 0.157(3.99)
<p>MECHANICAL DATA:</p> <p>Case : JEDEC DO-214AC molded plastic body</p> <p>Terminals : Solder plated solderable per MIL-STD-750, Method 2026</p> <p>Polarity : Color band denotes cathode end</p> <p>Mounting Position : Any</p> <p>Weight : 0.003 ounce 0.093 grams</p>	 <p>Dimensions in inches and (millimeters):</p> <ul style="list-style-type: none">Terminal thickness: 0.096(2.45) / 0.078(1.98)Terminal width: 0.060(1.52) / 0.030(0.76)Terminal height: 0.012(0.305) / 0.006(0.152)Terminal gap: 0.008(0.203)MAXTerminal length: 0.224(5.69) / 0.194(4.93)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

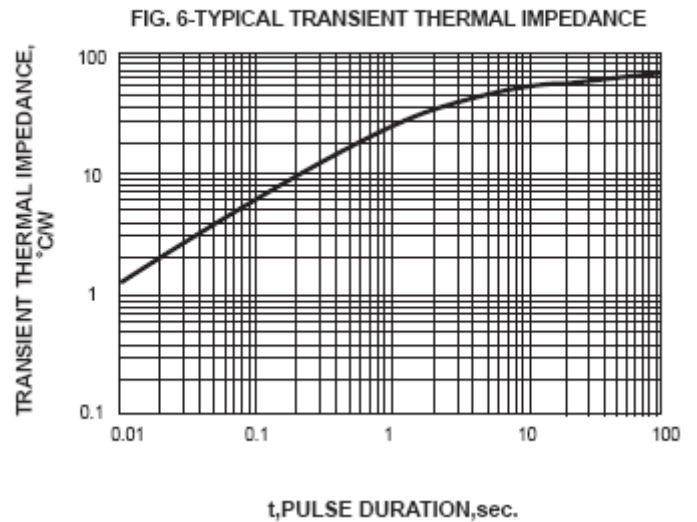
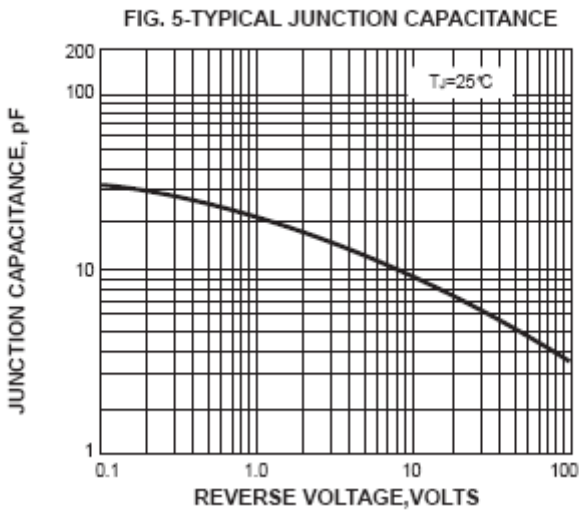
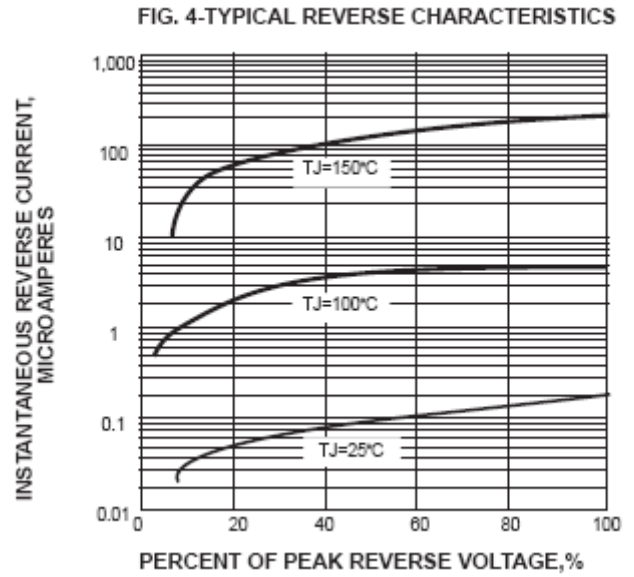
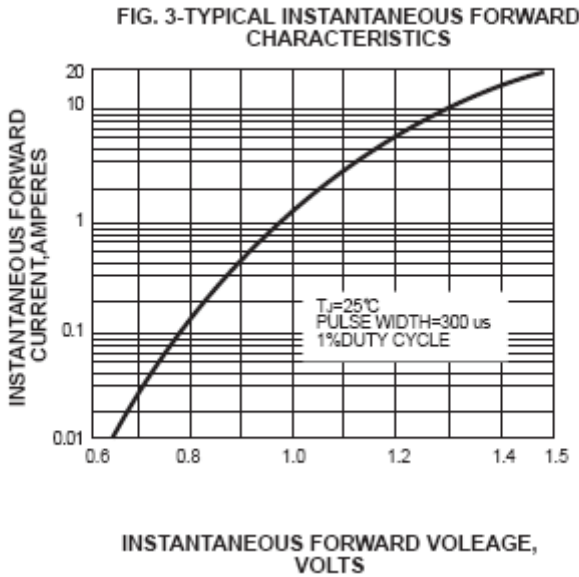
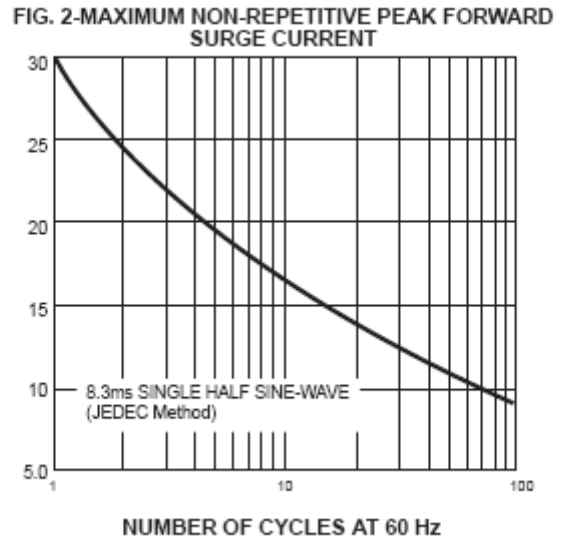
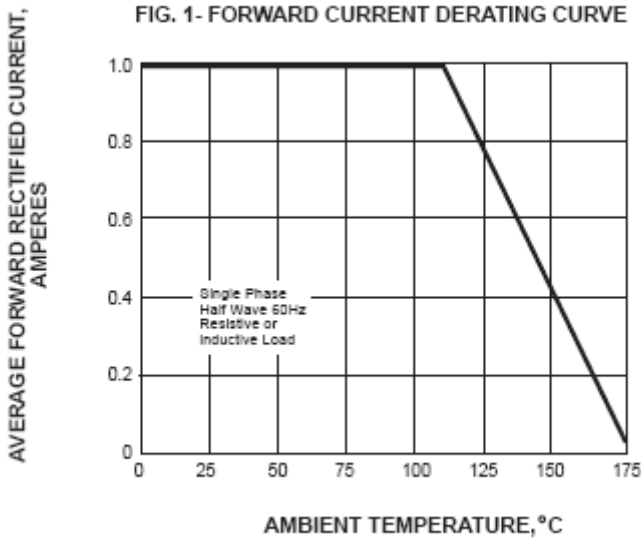
Single phase half-wave 60HZ resistive or inductive load for capacitive load current derate by 20%

	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 _L =110°C	I _(AV)	1.0							AMP
Peak forward surge current 8.3ms single Half sine-wave superimposed on rated toad (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°C at rated DC blocking voltage T _A =100°C	I _R	5.0 50.0							μA
Typical junction capacitance (NOTE 1)	C _J	15.0							pF
Typical thermal resistance (NOTE 2)	R _{qJA}	75.0							°C/W
Operating junction and storage temperature range	T _J , T _{STG}	-65 to +175							°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.