

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



**DO-214AC**



Dimensions in inches and (millimeters)

**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 :** 0.075 grams

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified

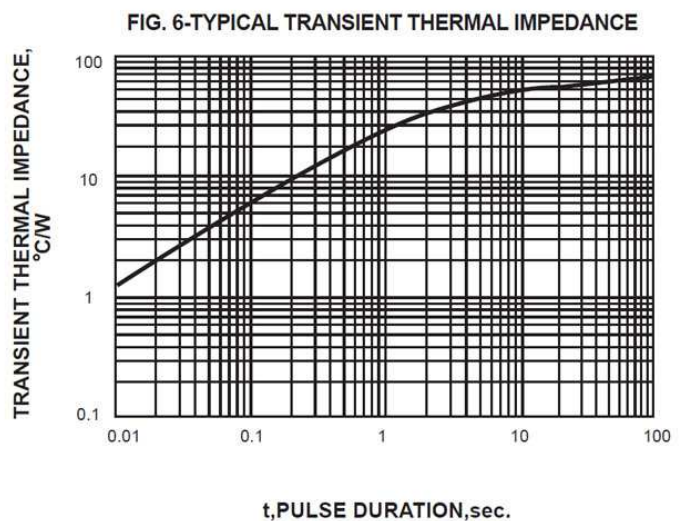
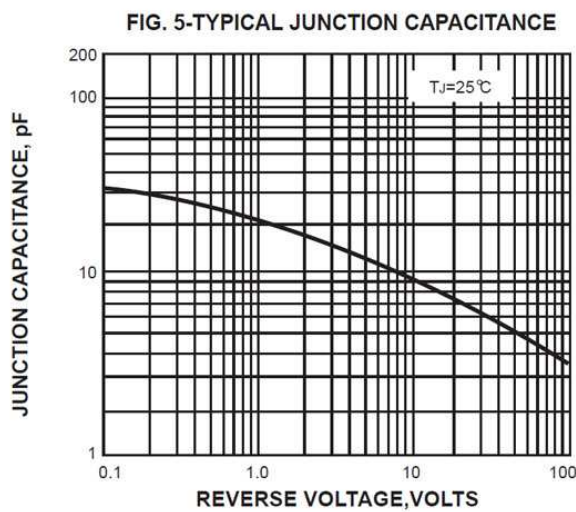
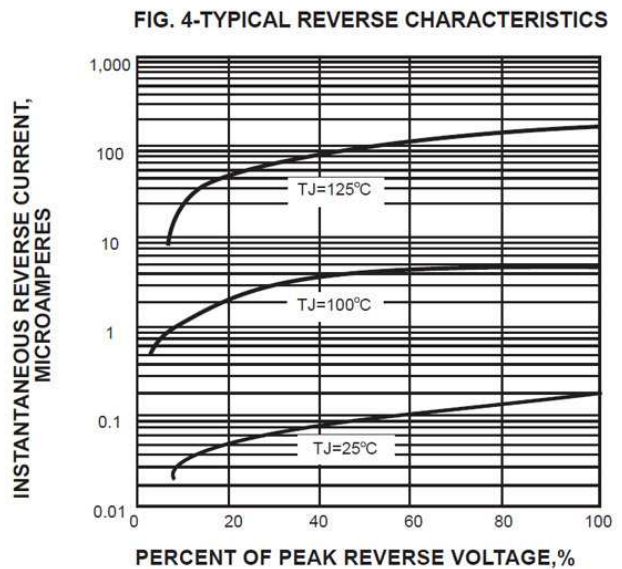
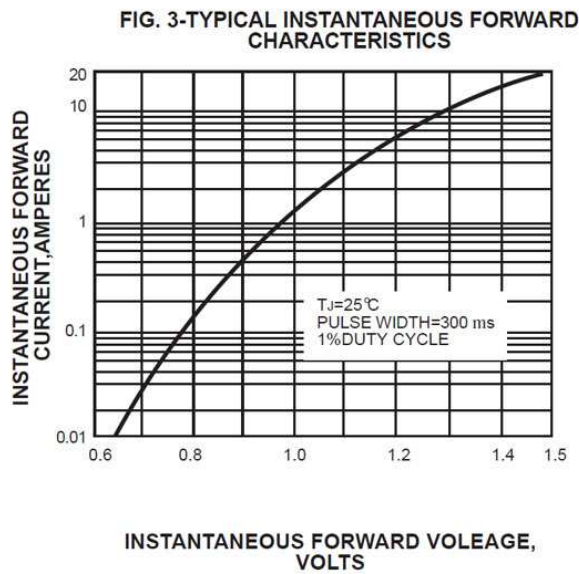
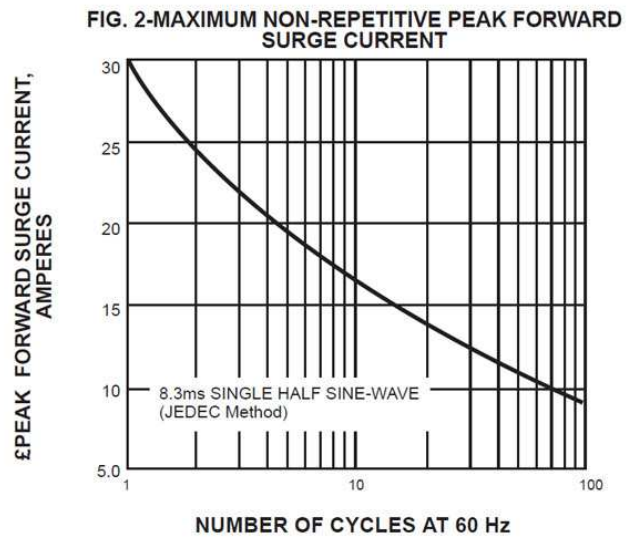
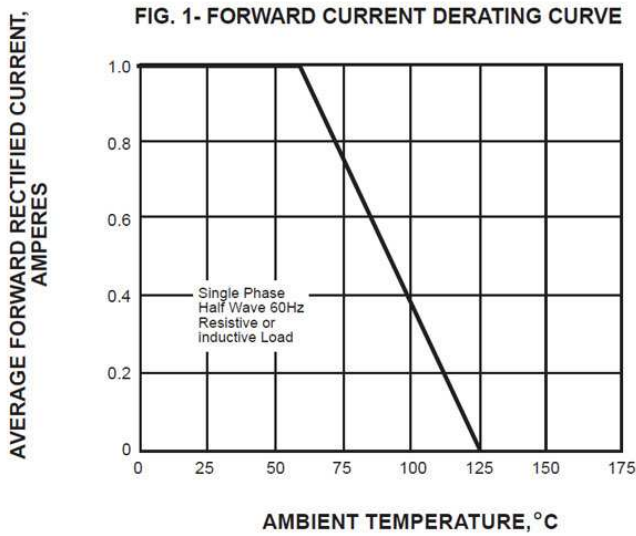
Single phase half-wave 60HZ resistive or inductive load ,for capacitive load current derate by 20%

	SYMBOLS	M1	M2	M3	M4	M5	M6	M7	UNITS
<b>Maximum repetitive peak reverse voltage</b>	V <sub>RRM</sub>	50	100	200	400	600	800	1000	VOLTS
<b>Maximum RMS voltage</b>	V <sub>RMS</sub>	35	70	140	280	420	560	700	VOLTS
<b>Maximum DC blocking voltage</b>	V <sub>DC</sub>	50	100	200	400	600	800	1000	VOLTS
<b>Maximum average forward rectified current at T<sub>L</sub>=55°C</b>	I <sub>(AV)</sub>	1.0							AMP
<b>Peak forward surge current 8.3ms single Half sine-wave superimposed on rated toad (JEDEC Method)</b>	I <sub>FSM</sub>	30.0							AMPS
<b>Maximum instantaneous forward voltage at 1.0A</b>	V <sub>F</sub>	1.1							VOLTS
<b>Maximum DC reverse current T<sub>A</sub>=25°C at rated DC blocking voltage T<sub>A</sub>=100°C</b>	I <sub>R</sub>	5.0 50.0							μ A
<b>Typical junction capacitance (NOTE 1)</b>	C <sub>J</sub>	15.0							pF
<b>Typical thermal resistance (NOTE 2)</b>	R <sub>qJA</sub>	75.0							°C/W
<b>Operating junction and storage temperature range</b>	T <sub>J</sub> , T <sub>STG</sub>	-55 to +125, -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.