

Product data sheet

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M1 THRU M7

Semiconductor



FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- 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: 0.002 ounce, 0.07 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	М3	M4	M5	M6	M7	UNITS
Vrrm	50	100	200	400	600	800	1000	VOLTS
Vrms	35	70	140	280	420	560	700	VOLTS
VDC	50	100	200	400	600	800	1000	VOLTS
l(AV)			-	1.0				Amp
Ігѕм				30.0				Amps
VF				1.1				Volts
lĸ				5.0 50.0				μΑ
CJ				15.0				pF
Reja				75.0				°C/W
Tj,Tstg	-65 to +150				°C			
	VRRM VRMS VDC I(AV) IFSM VF IR CJ RθJA	VRRM 50 VRMS 35 VDc 50 I(AV) 1 IFSM 1 VF 1 R CJ R0JA 1	VRRM 50 100 VRMS 35 70 VDC 50 100 I(AV)	VRRM 50 100 200 VRMS 35 70 140 VDc 50 100 200 I(AV) II III III IFSM III IIII IIII VF IIII IIIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	VRRM 50 100 200 400 VRMS 35 70 140 280 VDc 50 100 200 400 I(AV) 50 100 200 400 IR 50 50.0 50.0 50.0 CJ 15.0 50.0 50.0 50.0 R0JA 75.0 75.0 75.0 75.0	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	VRRM 50 100 200 400 600 800 VRMS 35 70 140 280 420 560 VDc 50 100 200 400 600 800 I(AV) 100 200 400 600 800 I(AV) 1.0 200 400 600 800 I(AV) 1.0 200 400 600 800 Vpc 50 100 200 400 600 800 I(AV) 1.0 30.0 1.0 1.0 1.0 1.0 IFSM 30.0 50.0	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C. 2.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas



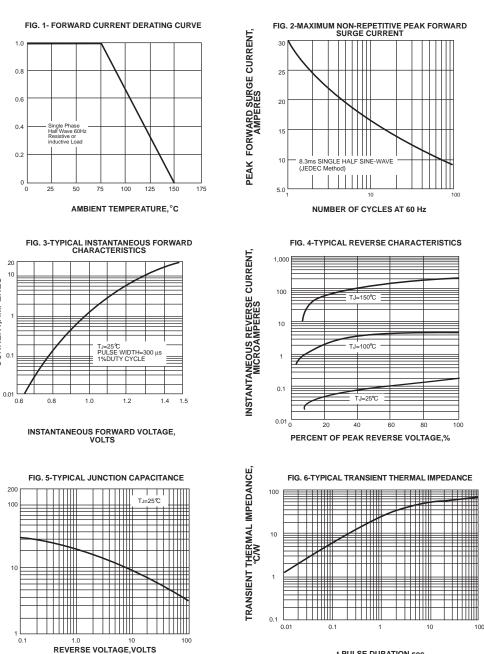
AVERAGE FORWARD RECTIFIED CURRENT, AMPERES

INSTANTANEOUS FORWARD CURRENT, AMPERES

JUNCTION CAPACITANCE, pF

M1 THRU M7 HF Roms

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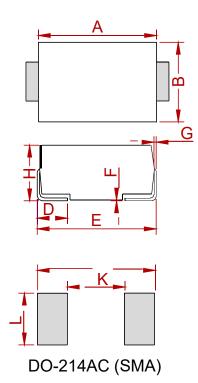


t, PULSE DURATION, sec.





PACKAGE MECHANICAL DATA



		Dimensions					
Ref.	Millin	neters	Inches				
	Min.	Max.	Min.	Max.			
А	4.25	4.65	0.167	0.183			
В	2.50	2.90	0.098	0.114			
С	1.35	1.65	0.053	0.065			
D	0.76	1.52	0.030	0.060			
Е	4.93	5.28	0.194	0.208			
F	0.051	0.203	0.002	0.008			
G	0.15	0.31	0.006	0.012			
Н	1.98	2.41	0.078	0.095			
J	6.50		0.256				
K		2.30		0.090			
L	1.70		0.067				

REEL SPECIFICATION

P/N	PKG	QTY
M1 THRU M7	SMA	2000



M1 THRU M7 Semiconductor

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