

Features

- Halogen Free. "Green" Device (Note 1)
- · Glass Passivated Chip Junction
- Epoxy Meets UL 94 V-0 Flammability Rating
- · Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant (Note 2)("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings @ 25°C (Unless Otherwise Specified)

Davameter	Symbol	Value						Unit	
Parameter	Symbol	M1FL	M2FL	M3FL	M4FL	M5FL	M6FL	M7FL	Jiiil
Peak Repetitive Reverse Voltage	V_{RRM}								
Working Peak Reverse Voltage	V_{RWM}	50	100	200	400	600	800	1000	V
DC Blocking Voltage	V_R								
RMS Reverse Voltage	V _{RMS}	35	70	140	280	420	560	700	٧
Average Rectified Forward Current @ T _L =120°C	I _{F(AV)}	1				Α			
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	I _{FSM}	30			Α				
Current Squared Time @1ms≤t≤8.3ms	l ² t	3.735			A ² s				

Marking Code

Part Number	Marking Code
M1FL	M1
M2FL	M2
M3FL	M3
M4FL	M4
M5FL	M5
M6FL	M6
M7FL	M7

Internal Structure

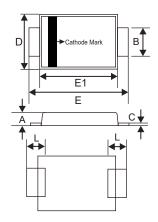
1 Cathode	ymbol
1 MCC 2	
2 Anode XX	o 2

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

2. High temperature solder exemption applied, see EU directive annex 7a.

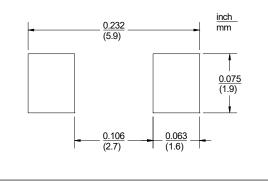
1 Amp Glass Passivated Rectifier 50 to 1000 Volts

DO-221AC(SMA-FL)



DIMENSIONS							
DIM	INCHES		М	M	NOTE		
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	0.035	0.049	0.90	1.25			
В	0.049	0.065	1.25	1.65			
С	0.004	0.016	0.10	0.40			
D	0.089	0.116	2.25	2.95			
Е	0.173	0.220	4.40	5.60			
E1	0.126	0.181	3.20	4.60			
L	0.020	0.059	0.50	1.50			

Suggested Solder Pad Layout





Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
T _J	Operating Junction Temperature Range		-55		150	°C
T _{stg}	Storage Temperature Range		-55		150	°C
Rth _(J-L)	Thermal Resistance from Junction to Lead	Note 1		20		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Note 1		70		°C/W

Note:

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage	V _F	I _F =1A;T _J =25°C			1.10	V
Reverse Current	I _R	at Rated $V_R;T_J$ =25°C at Rated $V_R;T_J$ =125°C			5 100	μА
Junction Capacitance	СЈ	V _R =4V;f=1MHz;T _J =25°C		6		pF

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^{1.}Mounted on P.C.B. with 8mm*8mm copper pad areas.



Curve Characteristics

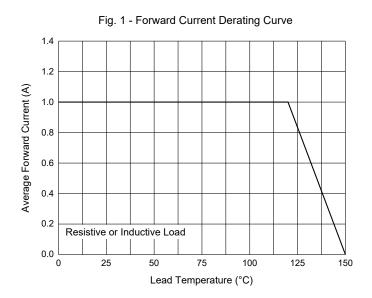


Fig. 3 - Typical Forward Characteristics

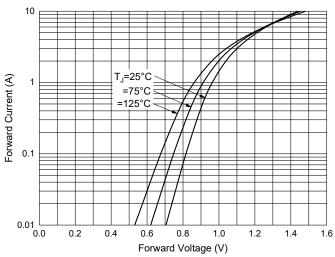
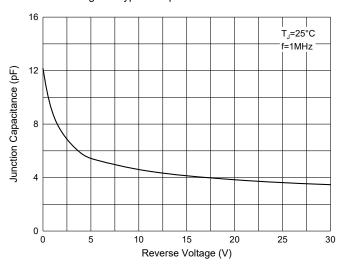


Fig. 5 - Typical Capacitance Characteristics



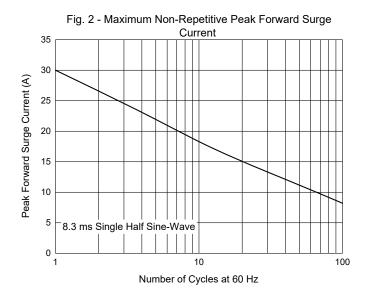
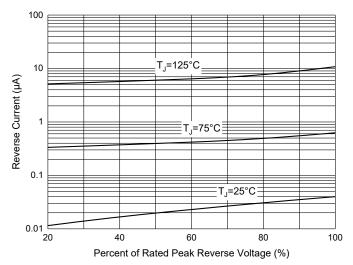


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing
Part Number-TP	Tape&Reel:10Kpcs/Reel

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