

Features

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

1 Amp Ultra Fast Rectifier 1000 Volts

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Maximum Thermal Resistance: 25°C/W Junction to Lead

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum	Maximum DC Blocking Voltage
US1ML	US1ML	1000V	700V	1000V



I _{F(AV)}	1.0A	T _L =110°C	
I _{FSM}	30A	8.3ms,Half Sine	
V _F	1.5V	I _{FM} =1.0A; T _A =25°C	
I _R	5.0μA 100μA	T _A =25⁰C; T _A =100⁰C	
t _{rr}	120ns	I _F =0.5A; I _R =1.0A; Irr=0.25A	
CJ	8pF	Measured at 1.0MHz; V _R =4.0V	
	I _{FSM} V _F I _R	$I_{FSM} = 30A$ $V_{F} = 1.5V$ $I_{R} = 5.0\mu A$ $100\mu A$ $t_{rr} = 120ns$	

Note:

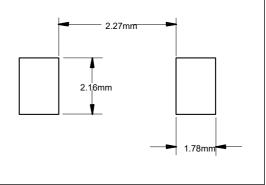
1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

2. High Temperature Solder Exemption Applied, see EU Directive Annex 7a.

SMA (DO-214AC)

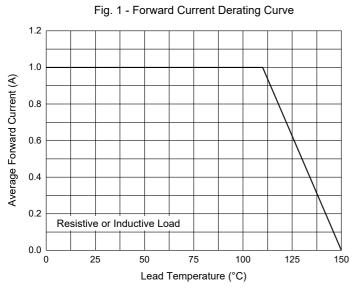
	DIMENSIONS							
DIM	INCHES		MM		NOTE			
	MIN	MAX	MIN	MAX	NOTE			
А	0.075	0.096	1.90	2.44				
В	0.050	0.064	1.27	1.63				
С	0.002	0.008	0.051	0.203				
D		0.020		0.51				
Е	0.030	0.060	0.76	1.52				
F	0.065	0.091	1.65	2.32				
G	0.189	0.220	4.80	5.59				
Н	0.157	0.187	4.00	4.75				
J	0.090	0.115	2.25	2.92				

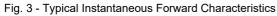
SUGGESTED SOLDER PAD LAYOUT

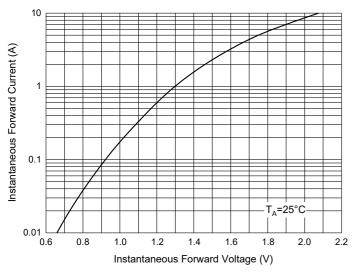


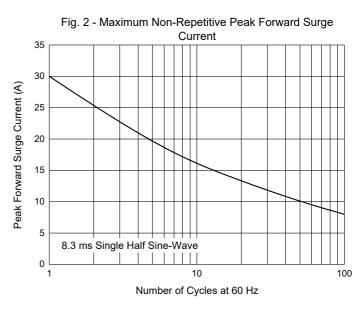


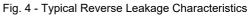
Curve Characteristics

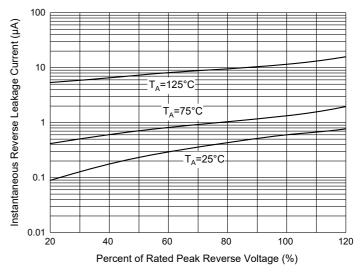














Ordering Information

Device	Packing	
Part Number-TP	Tape&Reel: 5Kpcs/Reel	

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