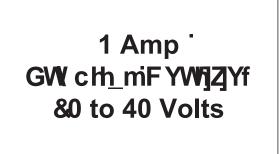


Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Low Power Loss For High Efficiency
- Guard Ring Protection
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant (Note 1)("P" Suffix Designates RoHS Compliant. See Ordering Information)



Maximum Ratings @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Value			
Falalletei	Symbol	1N5817	1N5818	1N5819	Unit
Peak Repetitive Reverse Voltage	V_{RRM}				
Working Peak Reverse Voltage	V _{RWM}	20	30	40	V
DC Blocking Voltage	V_{R}				
RMS Reverse Voltage	V _{RMS}	14	21	28	V
Average Rectified Forward Current	I _{F(AV)}	1			A
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	I _{FSM}	30			A
Current Squared Time @1ms≤t≤8.3ms	l ² t	3.735			A²s



Dort Number	Marking Code
Part Number	Marking Code
1N5817	1N5817
1N5818	1N5818
1N5819	1N5819

DO-41

Internal Structure

Pin	Description	Simplified Outline	Graphic Symbol		
1	Cathode				
2	Anode	MCC J XXXXX 2 XXXXX: XXXXX: Marking Code	1 oo 2		

Note: 1. High temperature solder exemption applied, see EU directive annex 7a.

DIMENSIONS					
DIM	INCHES		MM		NOTE
DIN	MIN	MAX	MIN	MAX	NOTE
Α	0.160	0.205	4.10	5.20	
В	0.080	0.107	2.00	2.70	Φ
С	0.028	0.035	0.71	0.90	Φ
D	1.000		25.40		



Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Мах	Unit
TJ	Operating Junction Temperature Range		-55		125	°C
T _{stg}	Storage Temperature Range		-55		150	°C
Rth _(J-L)	Thermal Resistance from Junction to Lead			25		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient			75		°C/W

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage 1N5817 1N5818 1N5819	V _F	I _F =1A;T _J =25°C			0.45 0.50 0.60	V
Reverse Current	I _R	at Rated V _R ;T _J =25°C at Rated V _R ;T _J =100°C			0.1 10	mA
Junction Capacitance 1N5817 1N5818~1N5819	CJ	V _R =4V;f=1MHz;T _J =25°C		75 50		pF
Reverse Recovery Time	t _{rr}	I _F =0.5A; I _R =1.0A; I _{rr} =0.25A;T _J =25°C		10		nS



Curve Characteristics

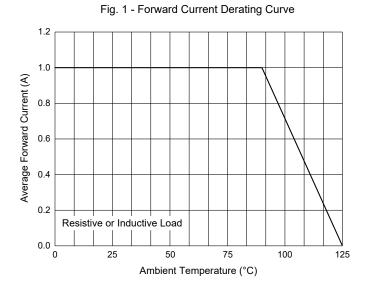


Fig. 3 - Typical Forward Characteristics

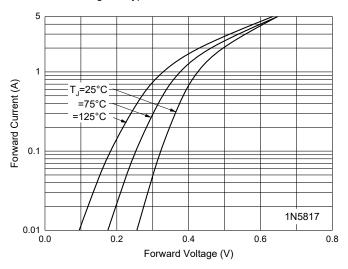
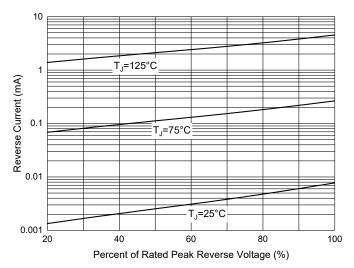


Fig. 5 - Typical Reverse Leakage Characteristics



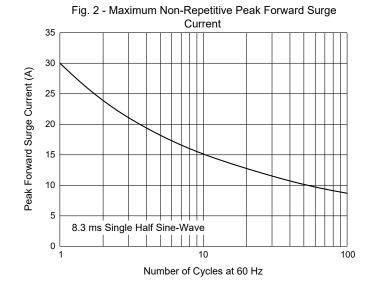


Fig. 4 - Typical Forward Characteristics

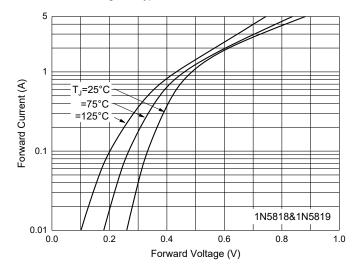
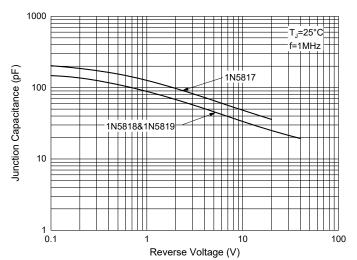


Fig. 6 - Typical Capacitance Characteristics





Ordering Information

Device	Packing
Part Number-TP	Tape&Reel:5Kpcs/Reel
Part Number-AP	Ammo Packing: 5Kpcs/Ammo Box
Part Number-BP	Bulk:1Kpcs/Box,50Kpcs/Carton

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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