

Features

- Halogen Free. "Green" Device (Note 1)
- Low Power Loss and High Efficiency
- High Surge Capability
- 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)

12 Amp Low VF Schottky Rectifier 100 Volts

Maximum Ratings @ 25°C (Unless Otherwise Specified)

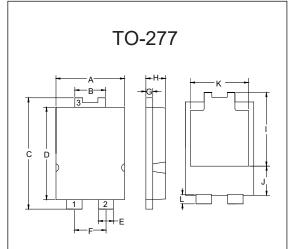
Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}		
Working Peak Reverse Voltage	V _{RWM}	100	V
DC Blocking Voltage	V _R		
RMS Reverse Voltage	V _{RMS}	70	V
Average Rectified Forward Current @ T _C =100°C	I _{F(AV)}	12	А
Non-Repetitive Peak Surge Current @8.3ms Half Sine Wave	I _{FSM}	180	А
Current Squared Time @ 1ms≤t≤8.3ms	l²t	135	A ² s

Internal Structure

Pin	Description	Simplified Outline	Graphic Symbol
3	Cathode	MCC 2	°2
1,2	Anode	3 12U100 1	30 0 1

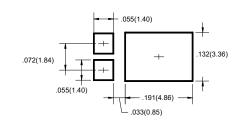
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

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



DIMENSIONS					
DIM	INCHES		MM		NOTE
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.154	0.161	3.90	4.10	
В	0.067	0.075	1.70	1.90	
С	0.252	0.260	6.40	6.60	
D	0.209	0.217	5.30	5.50	
Е	0.031	0.039	0.80	1.00	
F	0.071	0.075	1.80	1.90	
G	0.014	0.018	0.35	0.45	
Н	0.043	0.047	1.10	1.20	
- 1	0.161	0.177	4.10	4.50	
J	0.059	0.075	1.50	1.90	
K	0.114	0.134	2.90	3.40	
L	0.022	0.030	0.55	0.75	·

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-C)	Thermal Resistance from Junction to Case	(Note 1)		6		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	(Note 1)		60		°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 I _F =12A;T _J =25°C		0.38 0.60	0.625	V
Reverse Current	I _R	at Rated V _R ;T _J =25°C at Rated V _R ;T _J =100°C			0.5 10	mA
Junction Capacitance	Сл	V _R =4V;f=1MHz;T _J =25°C		1035		pF

^{1.}Mounted on P.C.B. with 16mm*16mm copper pad areas.



Curve Characteristics

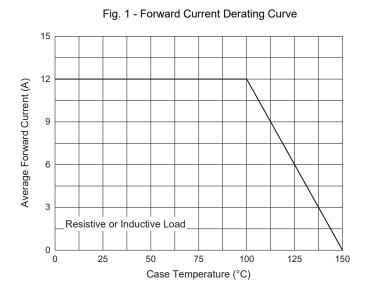


Fig. 3 - Typical Forward Characteristics

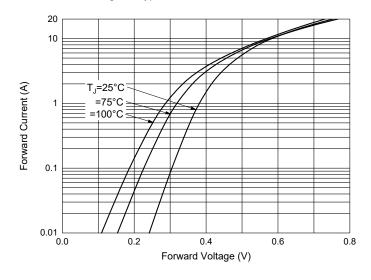
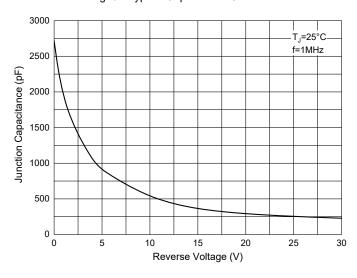


Fig. 5 - Typical Capacitance Characteristics



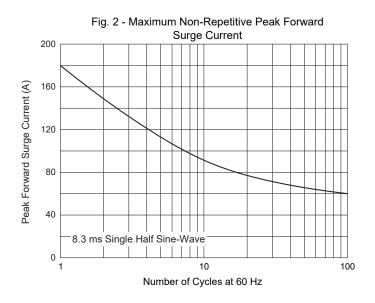
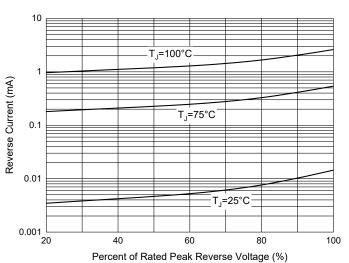


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing		
Part Number-TP	Tape&Reel:4Kpcs/Reel		

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