

Features

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

15 Amp Schottky Barrier Rectifier 100 Volts

Maximum Ratings @ 25°C (Unless Otherwise Specified)

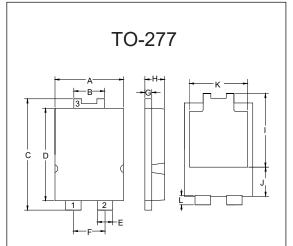
Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V _{RRM}		
Working Peak Reverse Voltage	V _{RWM}	100	V
DC Blocking Voltage	V _R		
RMS Reverse Voltage	V _{RMS}	70	V
Average Rectified Forward Current @ T _C =110°C	I _{F(AV)}	15	Α
Non-Repetitive Peak Surge Current @8.3ms Half Sine Wave	I _{FSM}	275	А
Current Squared Time @ 1ms≤t≤8.3ms	l ² t	313	A ² s

Internal Structure

Pin	Description	Simplified Outline	Graphic Symbol
3	Cathode	MCC 2	
1,2	Anode	³ _ 15U100 ₁	30 0 1

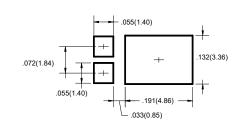
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

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



DIMENSIONS						
DIM	INC	INCHES		M	NOTE	
ואווט	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

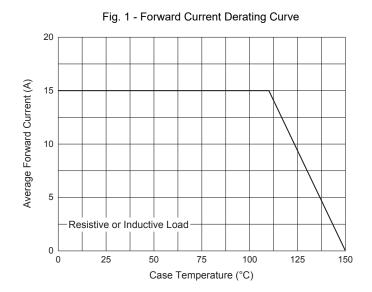
Symbol	Parameter	Conditions	Min	Тур	Max	Unit
TJ	Operating Junction Temperature Range		-55		150	°C
T _{stg}	Storage Temperature Range		-55		150	°C
Rth _(J-C)	Thermal Resistance from Junction to Case			8		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient			75		°C/W

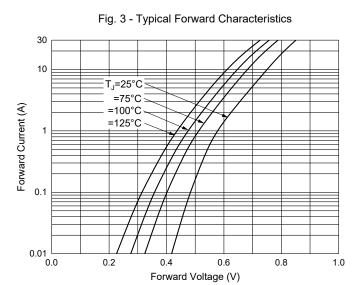
Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage	V _F	I _F =15A;T _J =25°C I _F =15A;T _J =125°C		0.78 0.65	0.85 0.75	V
Reverse Current	I _R	at Rated $V_R;T_J=25^{\circ}C$ at Rated $V_R;T_J=125^{\circ}C$			0.1 10	mA
Junction Capacitance	Сл	V _R =4V;f=1MHz;T _J =25°C		330		pF



Curve Characteristics





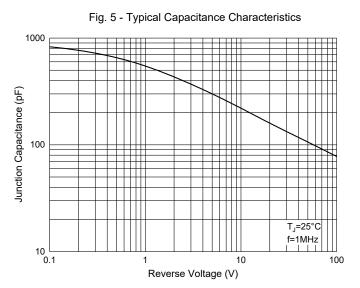


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

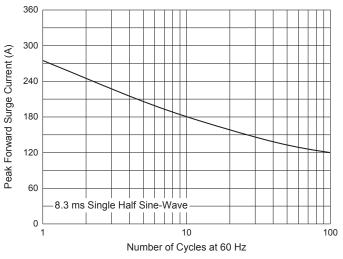
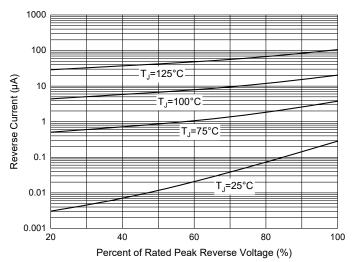


Fig. 4 - Typical Reverse Characteristics





Ordering Information

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

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