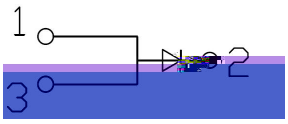
TO-277

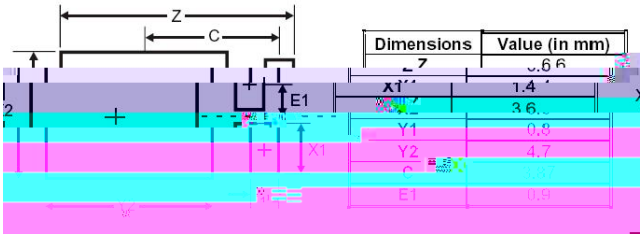
TO-277 Plastic package Schottky diode .

High Forward Surge Capability, Ultra Low Forward Voltage Drop, Excellent High Temperature Stability.
HF Product.

For use in low voltage,high frequency inverters, free wheeling, and polarity protection applications.







PIN1 Anode PIN 2 Cathode PIN 3 Anode Suggested Pad layout

See Marking Instructions.

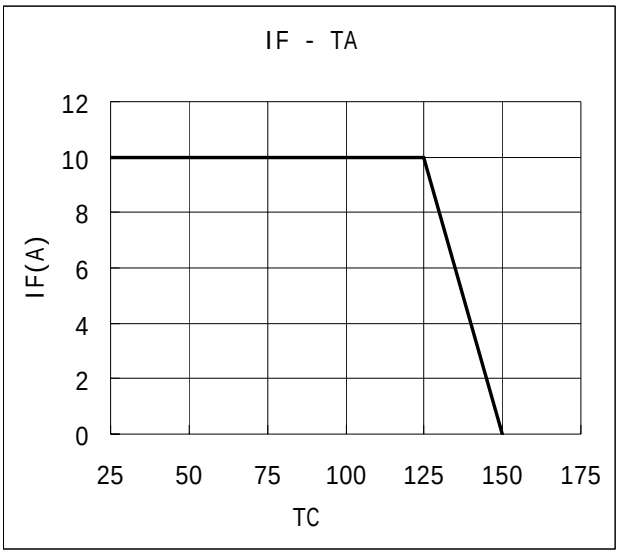
Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage Peak Reverse Voltage	V_{RRM} V_{RWM} V_{RM}	100	V
RMS Reverse voltage	$V_{R(RMS)}$	78	V
Average Rectified Output Current	I_O	10	A
Non-Repetitive Peak Forward Surge Current	I_{FSM}	150	A
Repetitive peak avalanche power	P_{ARM}	20000	W
Junction Temperature Range	$T_{j\ MAX}$	150	
Storage Temperature Range	T_{stg}	-55 150	
Typical Thermal Resistance	$R_{\theta JA}$ Note 1	76	/W

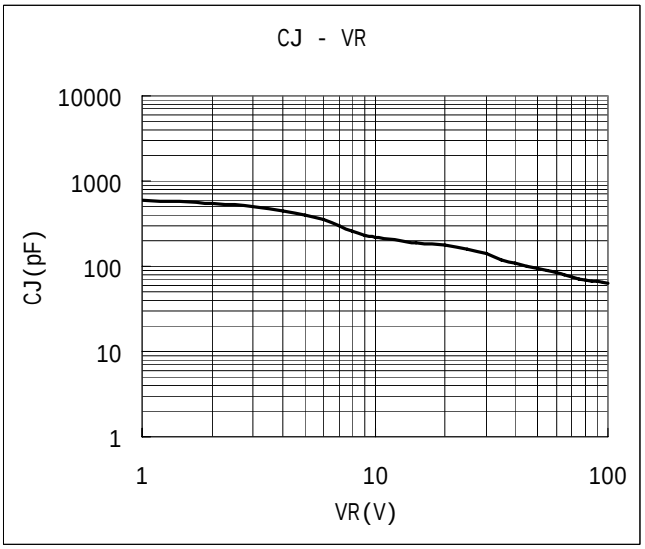
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse Voltage	V_R	I_R=0.3mA	100			V
Forward voltage	V_F	I_F=2A T_J=25		0.43		V
		I_F=2A T_J=125		0.33		V
		I_F=10A T_J=25		0.62	0.72	V
		I_F=10A T_J=125		0.57	0.65	V
Instantaneous Reverse Current	I_R Note 2	V_R=100V T_J=25		15	100	uA
		V_R=100V T_J=125		10	25	mA

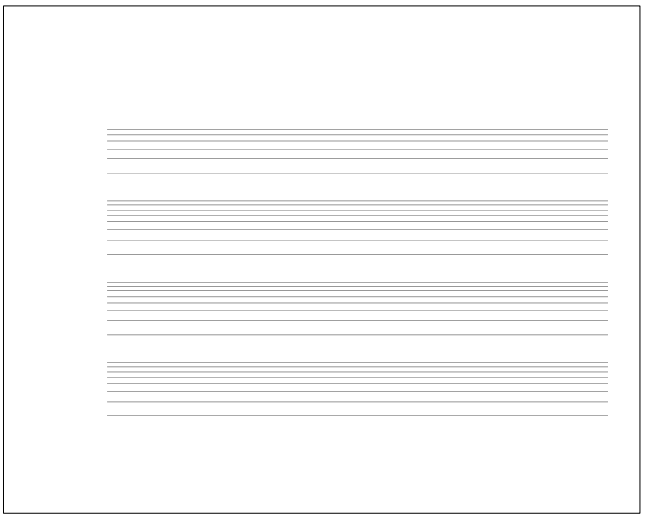
/Notes

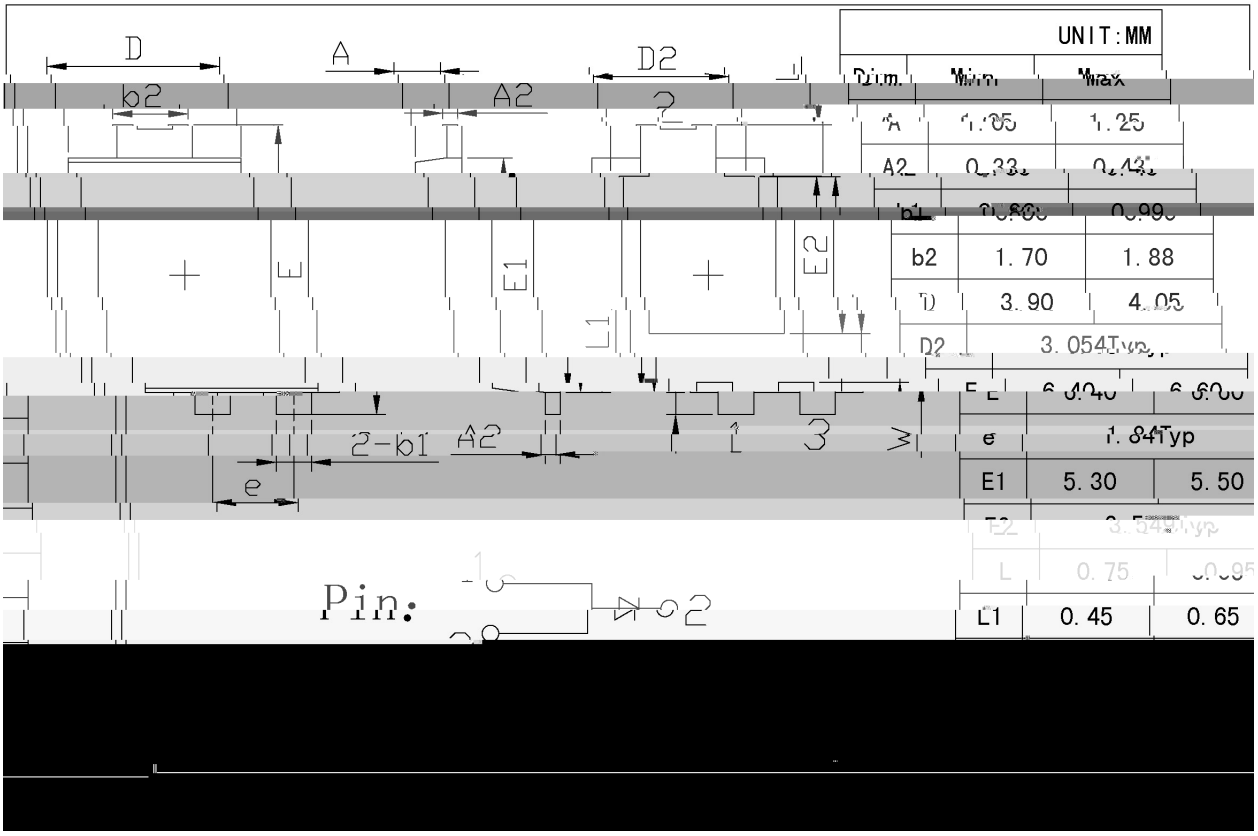
1. FR-4 PCB 2 /FR-4 PCB, 2oz. Copper, minimum recommended pad layout per.

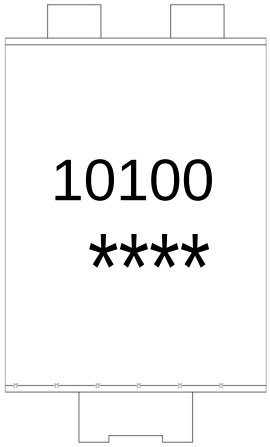
2. /Short duration pulse test used to minimize self-heating effect.


IF - TA
12
10
8
6
4
2
0
IF(A)
25
50
75
100
125
150
175
TC


CJ - VR
10000
1000
100
10
1
CJ(pF)
1
10
100
VR(V)




D
A
D2
b2
A2
E
E1
E2
L1
2-b1
A2
e
Pin:
UNIT:MM
Dim.
Min.
Max
A
1.25
A2
b2
1.70
1.88
D
3.90
4.05
D2
3.054Typ
e
1.84Typ
E1
5.30
5.50
L
0.75
L1
0.45
0.65



10100

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Note:

10100	Product Type.
****:	Lot No. Code, code change with Lot No.