/ Descriptions

TO-277

TO-277 Plastic package Schottky diode .

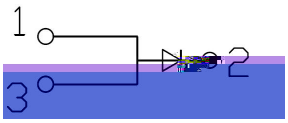
/ Features

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

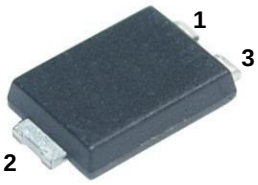
/ Applications

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

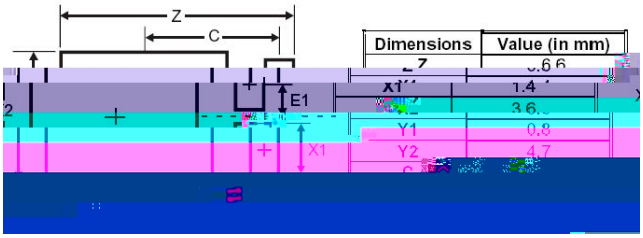
/ Equivalent Circuit



/ Pinning



PIN1 Anode PIN 2 Cathode PIN 3 Anode



Suggested Pad layout

/ h_{FE} Classifications & Marking

See Marking Instructions.

/ Absolute Maximum Ratings(Ta=25)

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	$R_{\ JA\ \ Note\ 1}$	76	/W

/ Electrical Characteristics(Ta=25)

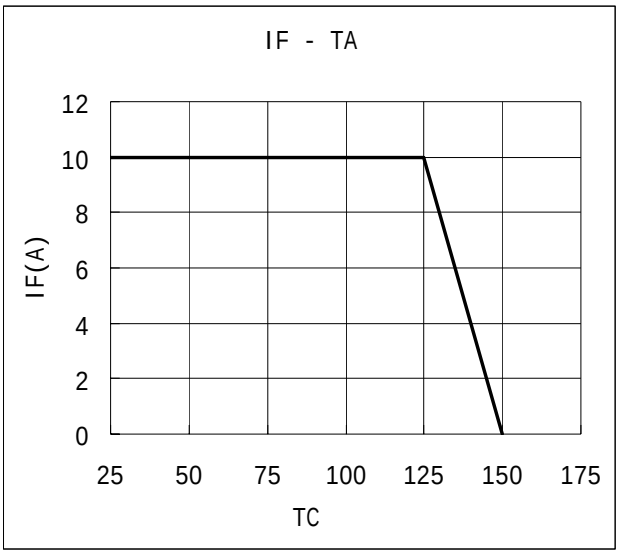
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse Voltage	V_R	I_R=0.3mA	100			V
Forward voltage	V_F	I_F=2A T_J=25		0.43		V
		I_F=2A T_J=125		0.33		V
		I_F=10A T_J=25		0.62	0.72	V
		I_F=10A T_J=125		0.57	0.65	V
Instantaneous Reverse Current	$I_{R\ Note\ 2}$	V_R=100V T_J=25		15	100	uA
		V_R=100V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

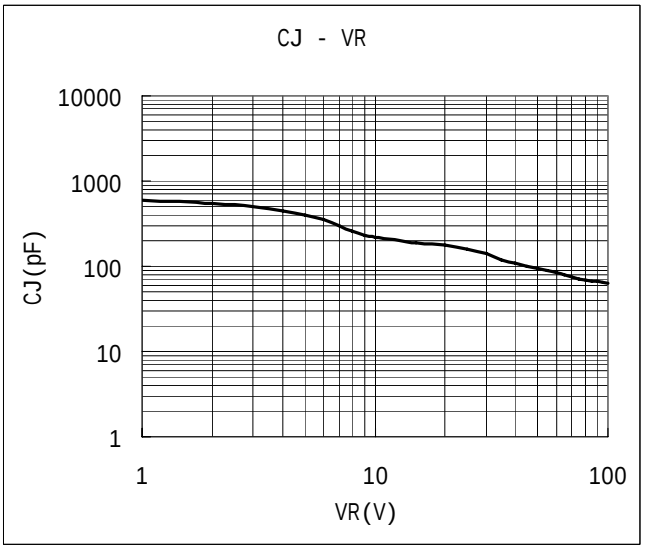
/Notes

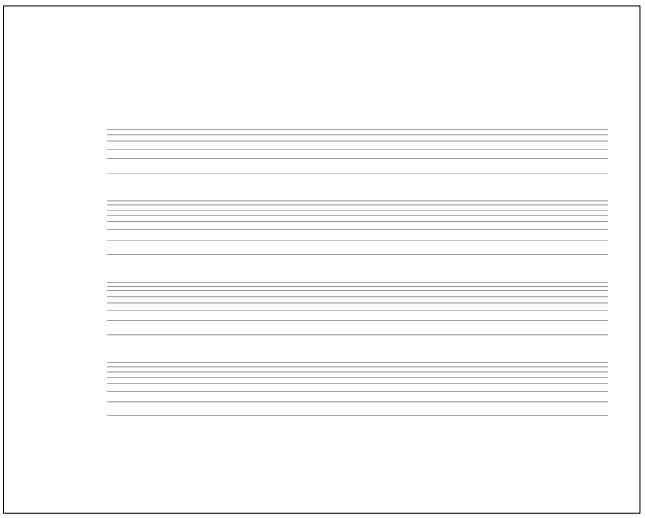
1. FR-4 PCB 2 /FR-4 PCB, 2oz. Copper, minimum recommended pad layout per.

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

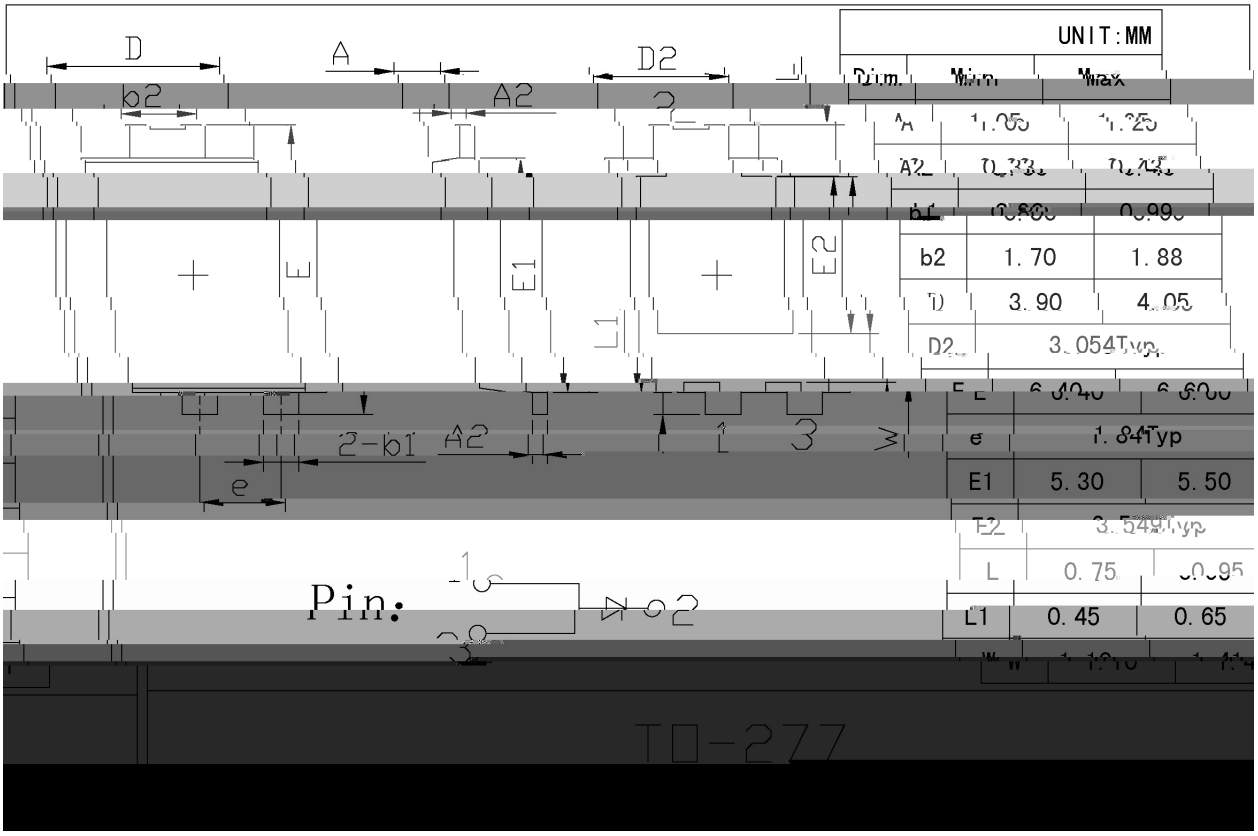
/ Electrical Characteristic Curve



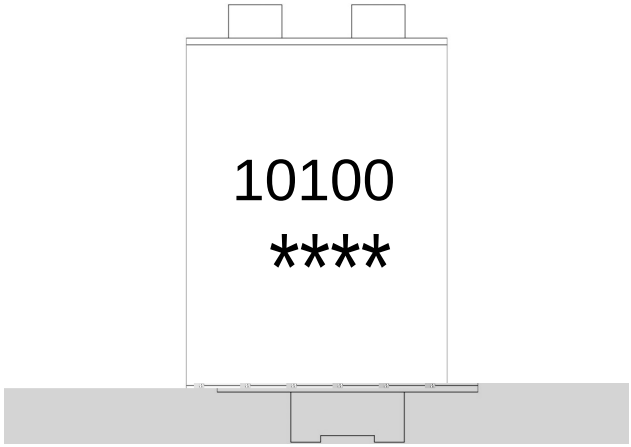




/ Package Dimensions



/ Marking Instructions



10100

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Note:

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