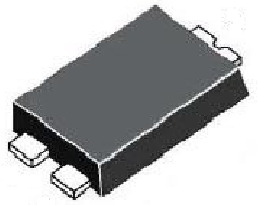
GPS10M100TJ

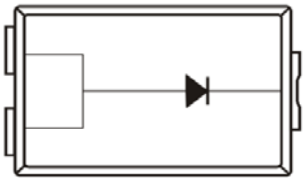
TO-277



Feature

- Ultra-Low Forward Voltage
- Low Power Loss, High Efficiency
- High Current Capability
- High Surge Capability
- High Junction Temperature
- Low Reverse Current

Schematic diagram



MARKING:

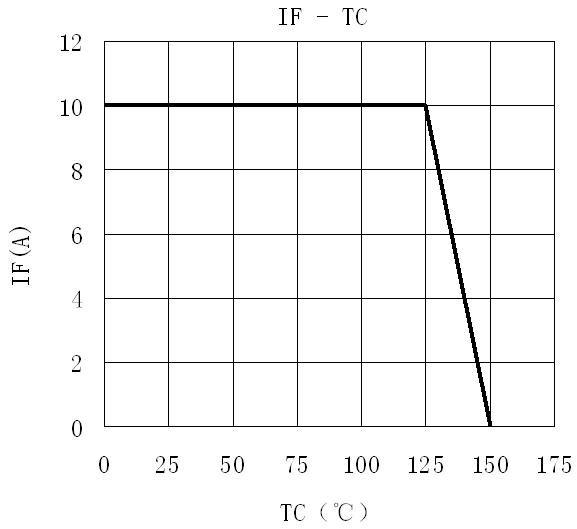
ABSOLUTE MAXIMUM RATINGS (T_A=25℃ unless otherwise noted)

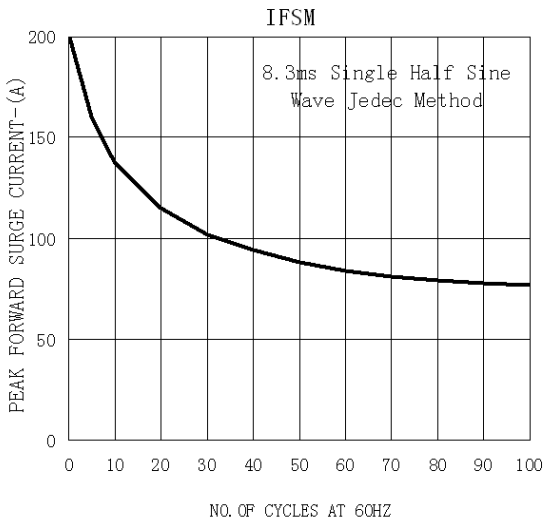
Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	100	V
Working Peak Reverse Voltage	V_{RSM}		
DC Blocking Voltage	V_{DC}		
RMS Reverse Voltage	$V_{R(MS)}$	70	V
Average Rectified Output Current	$I_{F(AV)}$	10	A
Non-Repetitive Peak Forward Surge Current 8.3ms Half Sine Wave	I_{FSM}	200	A
Thermal Resistance From Junction To Ambient	$R_{\Theta JC}$	1.4	℃/W
Junction Temperature	T_J	150	℃
Storage Temperature	T_{STG}	-55~+150	℃

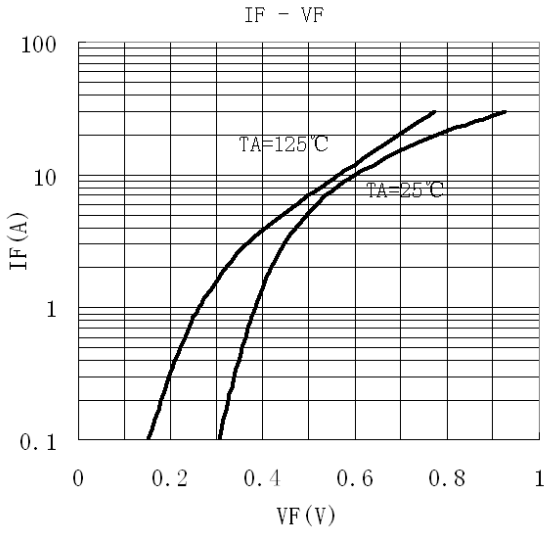
ELECTRICAL CHARACTERISTICS (T_A=25℃ unless otherwise noted)

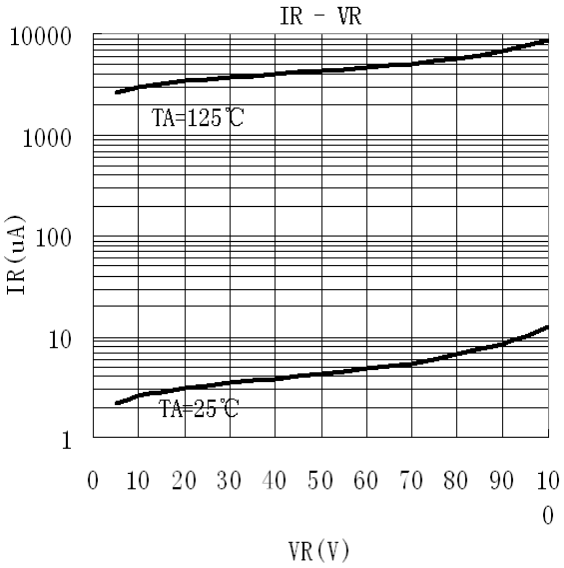
Parameter	Symbol	Test Condition	Min	Type	Max	Unit
Reverse Voltage	$V_{(BR)}$	I_R=1mA,	100			V
Reverse Current	I_R	V_R=100V			0.15	mA
		V_R=100V, T_A=125℃			25	
Forward Voltage	V_F	I_F=2A		0.41	0.45	V
		I_F=2A, T_A=125℃		0.31	0.40	
		I_F=10A		0.58	0.65	
		I_F=10A ,T_A=125℃		0.55	0.65	

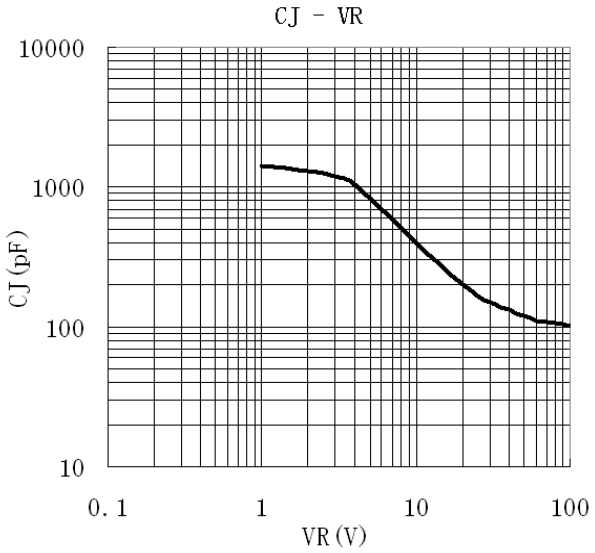
Typical Characteristics



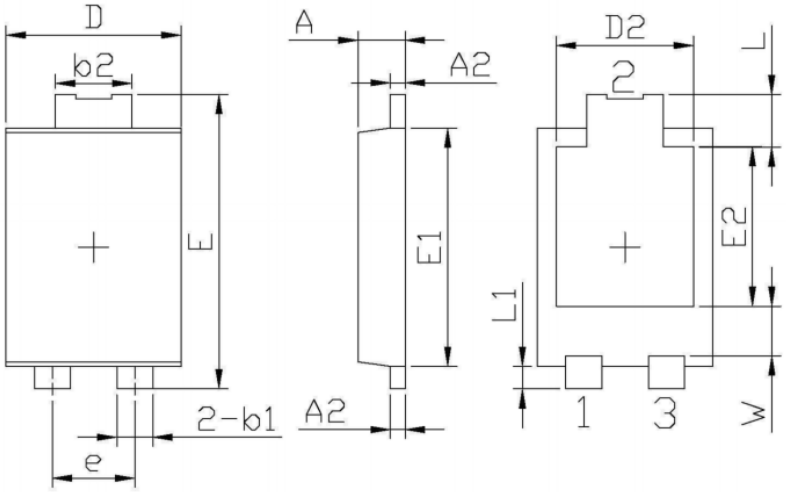








TO-277 Package Outline Dimensions



		UNIT:MM
Dim	Min	Max
A	1.05	1.25
A2	0.33	0.43
b1	0.80	0.99
b2	1.70	1.88
D	3.90	4.05
D2	3.054Typ	
E	6.40	6.60
e	1.84Typ	
E1	5.30	5.50
E2	3.549Typ	
L	0.75	0.95
L1	0.45	0.65
W	1.10	1.41

Attention：

- GreenPower Electronics reserves the right to improve product design function and reliability without notice.
- Any and all semiconductor products have certain probability to fail or malfunction, which may result in personal injury, death or property damage. Customer are solely responsible for providing adequate safe measures when design their systems.
- GreenPower Electronics products belong to consumer electronics or other civilian electronic products.