

TO-277 Plastic-Encapsulate Diodes

Schottky Rectifier

Features

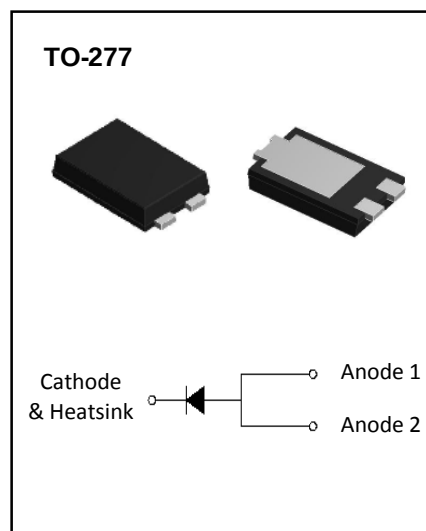
- I_O 10A
- V_{RRM} 200V
- High surge current capability
- Low V_f

Applications

- Rectifier

Marking

- SP10V200L



Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	SP 10V200L
Repetitive Peak Reverse Voltage	V_{RRM}	V		200
Maximum RMS Voltage	V_{RMS}	V		140
Average Forward Current	$I_{F(AV)}$	A	60Hz Half-sine wave, Resistance load, $T_L=125^{\circ}\text{C}$	10
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz Half-sine wave, 1 cycle, $T_a=25^{\circ}\text{C}$	160
Junction Temperature	T_J	$^{\circ}\text{C}$		-55~+150
Storage Temperature	T_{STG}	$^{\circ}\text{C}$		-55~+150

Electrical Characteristics ($T_a=25^{\circ}\text{C}$ Unless otherwise specified)

Item	Symbol	Unit	Test Condition		SP 10V200L
Peak Forward Voltage	V_F	V	$I_F=10\text{A}$	$T_a=25^{\circ}\text{C}$ $T_a=125^{\circ}\text{C}$	0.88(TYP) 0.91(MAX) 0.73(TYP) 0.75(MAX)
Peak Reverse Current	I_{RRM1}	mA	$V_{RM}=V_{RRM}$	$T_a=25^{\circ}\text{C}$	0.005(TYP) 0.01(MAX)
	I_{RRM2}			$T_a=125^{\circ}\text{C}$	5(TYP) 10(MAX)
Thermal Resistance(Typical)	$R_{\theta J-A}$	$^{\circ}\text{C/W}$	Between junction and ambient		35
	$R_{\theta J-L}$		Between junction and lead		10
Typical junction capacitance	C_J	PF	4.0 V, 1 MHz		206

Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

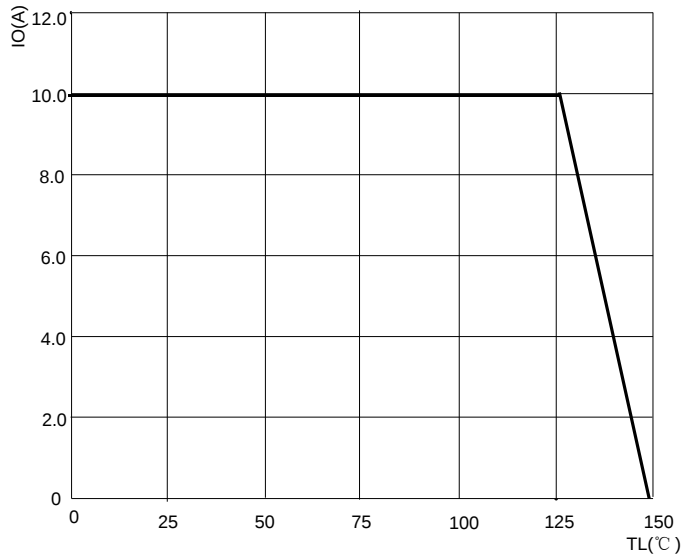


FIG.2: MAXIMUM NON-REPETITIVE FORWARD URGE CURRENT

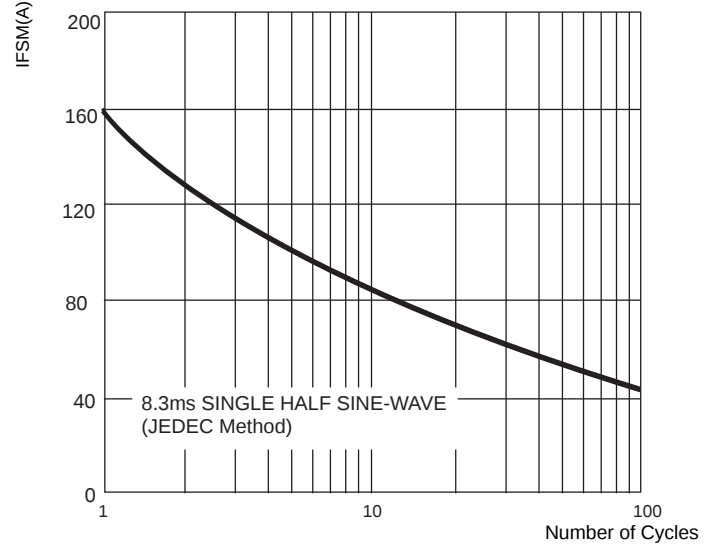


FIG3: Forward Voltage

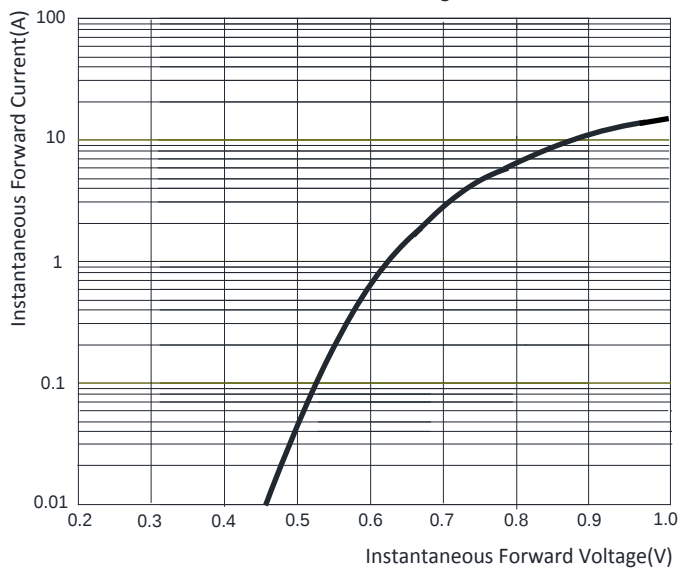
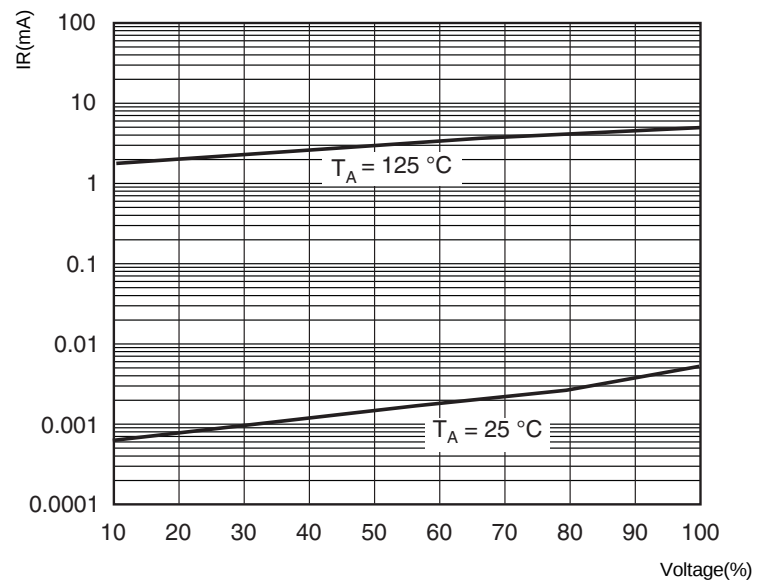
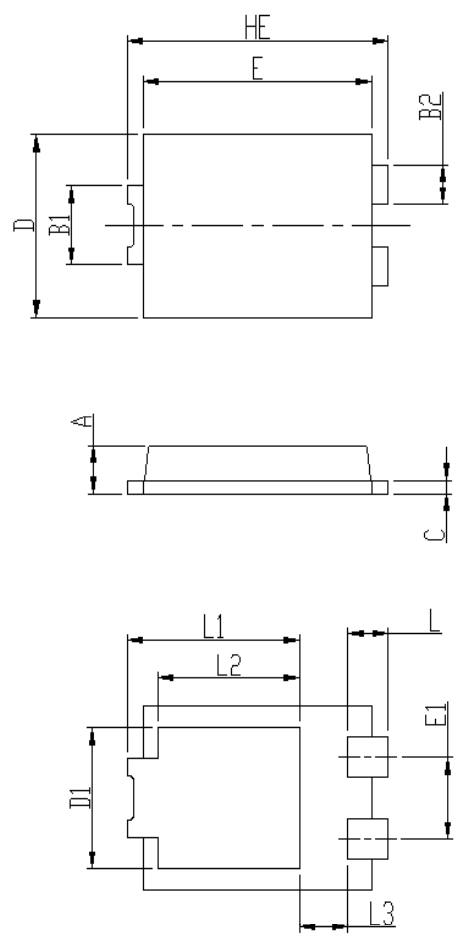


FIG.4: TYPICAL REVERSE CHARACTERISTICS



TO- 277 Package Outline Dimensions



DIM	Unit: mm		Unit: inch	
	MIN	MAX	MIN	MAX
HE	6.4	6.6	0.252	0.260
E	5.6	5.8	0.220	0.228
D	4.1	4.3	0.161	0.169
B1	1.7	1.9	0.067	0.075
B2	0.8	1	0.031	0.039
A	1.05	1.2	0.041	0.047
C	0.3	0.4	0.012	0.016
L	0.85	1.1	0.033	0.043
L1	4.2	4.4	0.165	0.173
L2	3.52 Typ.		0.139 Typ.	
L3	1.1	1.4	0.043	0.055
D1	3	3.3	0.118	0.130
E1	1.86 Typ.		0.073 Typ.	

TO- 277 Suggested Pad Layout



Note:
1.Controlling dimension:in millimeters.
2.General tolerance:± 0.05mm.
3.The pad layout is for reference purposes only.

NOTICE

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