

TO-277 Plastic-Encapsulate Diodes

Schottky Rectifier

Features

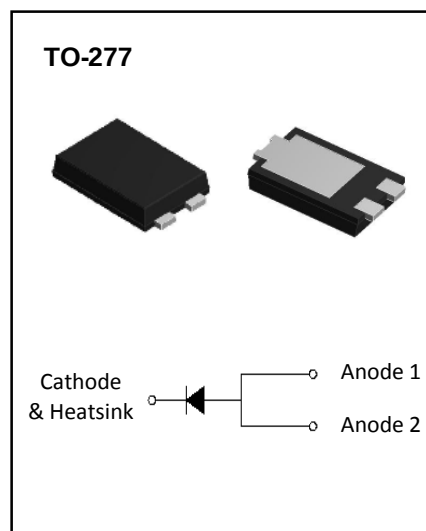
- I_O 15A
- V_{RRM} 50V
- High surge current capability
- Low V_f

Applications

- Rectifier

Marking

- SP1550L



Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	SP1550L
Repetitive Peak Reverse Voltage	V_{RRM}	V		50
Maximum RMS Voltage	V_{RMS}	V		35
Average Forward Current	$I_{F(AV)}$	A	60Hz Half-sine wave, Resistance load, $T_L=125^{\circ}C$	15
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz Half-sine wave,1 cycle, $T_a=25^{\circ}C$	300
Junction Temperature	T_J	$^{\circ}C$		-55~+150
Storage Temperature	T_{STG}	$^{\circ}C$		-55~+150

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

Item	Symbol	Unit	Test Condition		SP1550L
Peak Forward Voltage	V_F	V	$I_F=15A$	$T_a=25^{\circ}C$ $T_a=125^{\circ}C$	0.48(TYP) 0.55(MAX) 0.45(TYP)
Peak Reverse Current	I_{RRM1}	mA	$V_{RM}=V_{RRM}$	$T_a=25^{\circ}C$	0.06(TYP) 0.20(MAX)
	I_{RRM2}			$T_a=125^{\circ}C$	20(TYP) 50(MAX)
Thermal Resistance(Typical)	$R_{\theta J-A}$	$^{\circ}C/W$	Between junction and ambient		80
	$R_{\theta J-L}$		Between junction and lead		25
Typical junction capacitance	C_J	nF	4.0 V, 1 MHz		0.95

Typical Characteristics

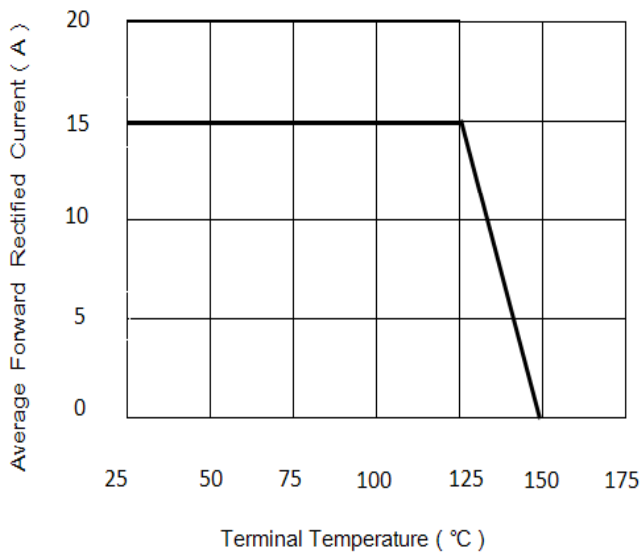


Figure 1. Forward Current Derating Curve

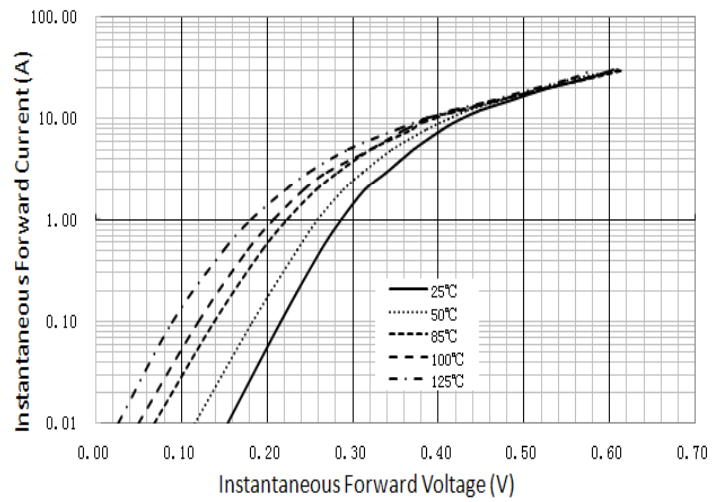


Figure 2. Typical Instantaneous Forward Characteristics

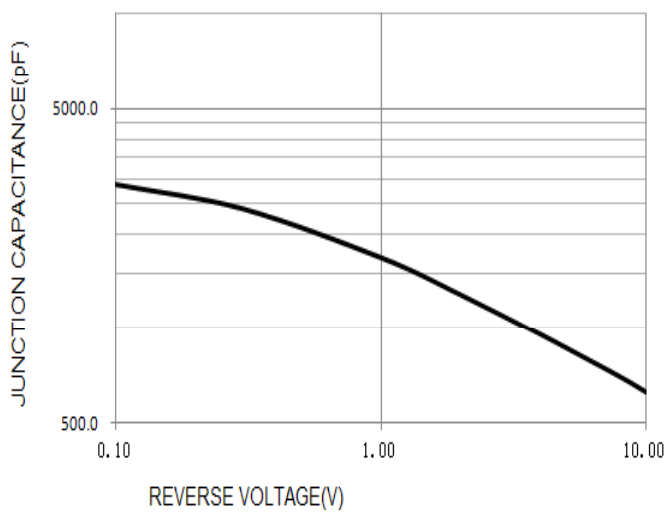


Figure 3. Typical Junction Capacitance

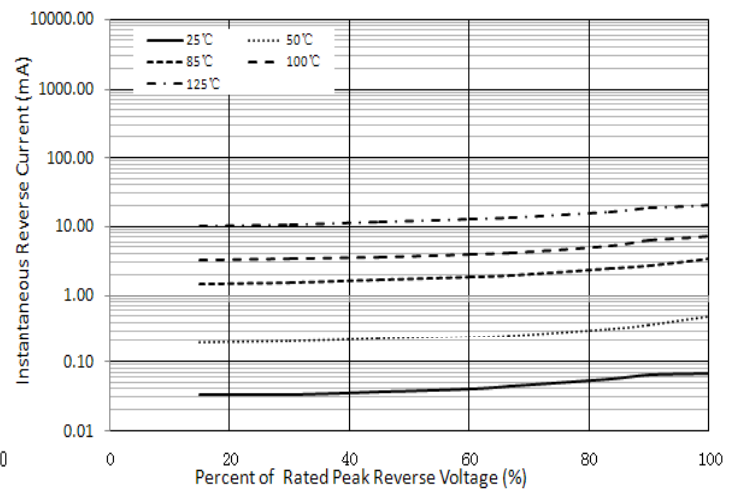


Figure 4. Typical Reverse Characteristics

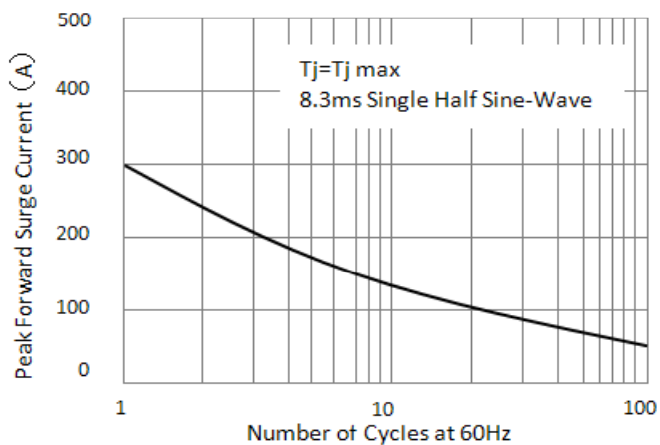
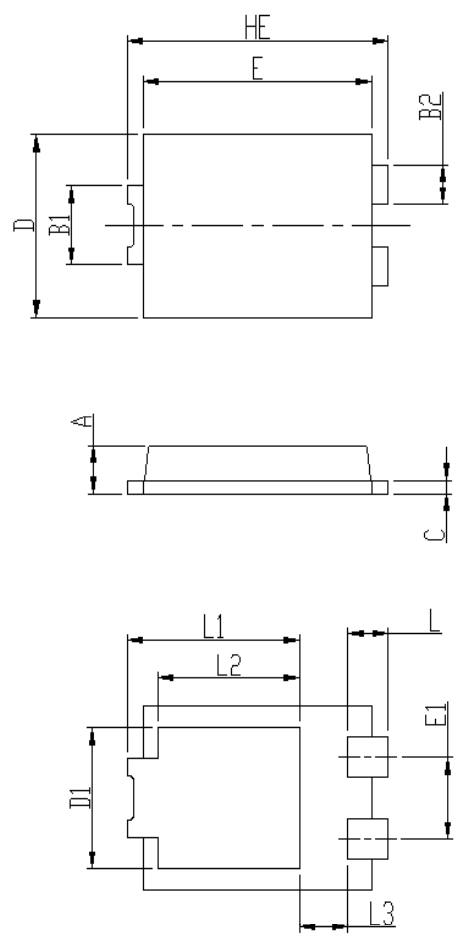


Figure 5. Maximum Non-Repetitive Peak Forward Surge Current

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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