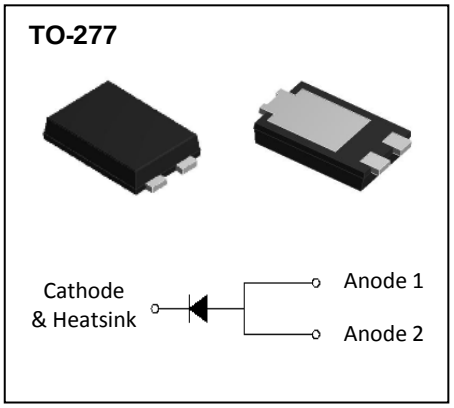
SZCJ

TO- 277 Plastic-Encapsulate Diodes

ST20150L Schottky Rectifier Diode

Features

- $I_{F(AV)}$ 20A
- V_{RRM} 150V
- High surge current capability
- Low peak forward voltage



Applications

- Rectifier

Marking



XXXX=code

ST20150L=Device code

Limiting Values(Absolute Maximum Rating)

Item	Symbol	Unit	Test Conditions	ST20150L
Repetitive Peak Reverse Voltage	V_{RRM}	V		150
Maximum RMS Voltage	V_{RMS}	V		105
Maximum DC Blocking Voltage	V_{DC}	V		150
Average Forward Current	$I_{F(AV)}$	A	60Hz Half-sine wave, Resistance load, T L=100℃	20
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz Half-sine wave, 1 cycle, Ta=25℃	320
Junction Temperature	T_J	℃		-55 ~ +150
Storage Temperature	T_{STG}	℃		-55 ~ +150

Electrical Characteristics (T=25℃ Unless otherwise specified)

Item	Symbol	Unit	Test Condition		ST20150L	
Peak Forward Voltage	V_F	V	I_F=20.0A	Ta=25℃	0.80(TYP)	0.85(MAX)
				Ta=125℃	0.72(TYP)	0.77(MAX)
Peak Reverse Current	I_{RRM1}	mA	$V_{RM}=V_{RRM}$	Ta=25℃	0.01(TYP)	0.05(MAX)
	I_{RRM2}			Ta=125℃	5(TYP)	35(MAX)
Thermal Resistance(Typical)	$R_{\theta J-A}$	℃/W	Between junction and ambient		80	
	$R_{\theta J-L}$		Between junction and terminal		5	

Notes:

Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.3" x 0.3" (8.0 mm x 8.0 mm) copper pad areas

Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

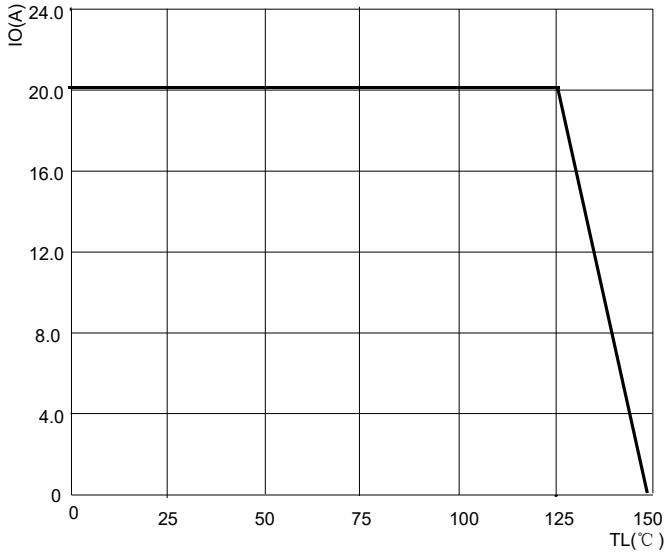


FIG.2: MAXIMUM NON-REPETITIVE FORWARD URGE CURRENT

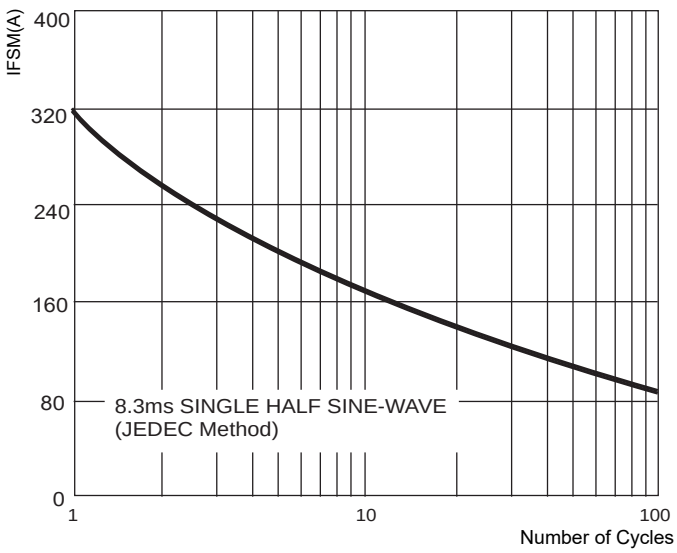


FIG3:Instantaneous Forward Voltage

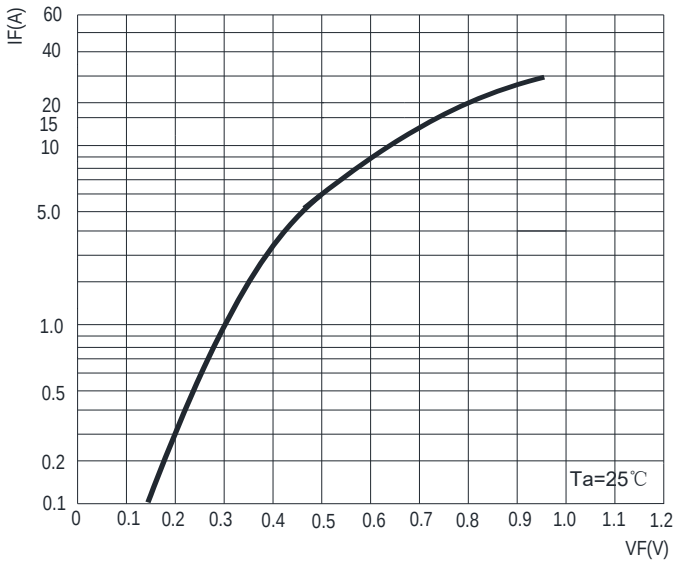
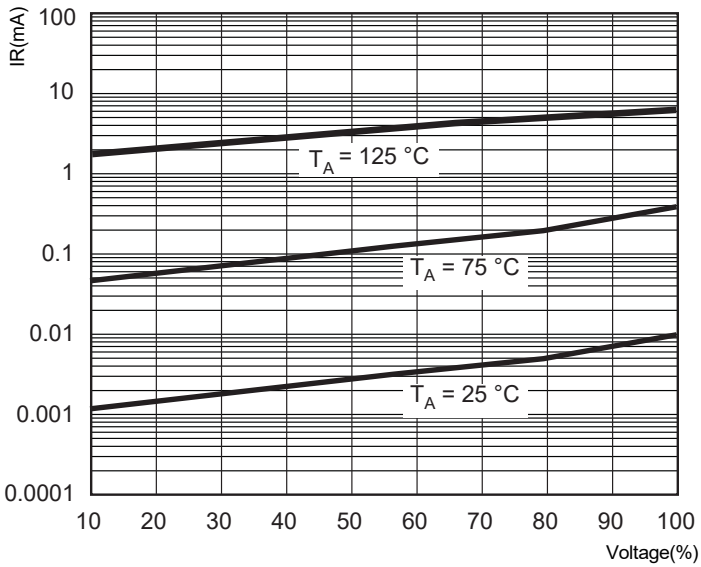
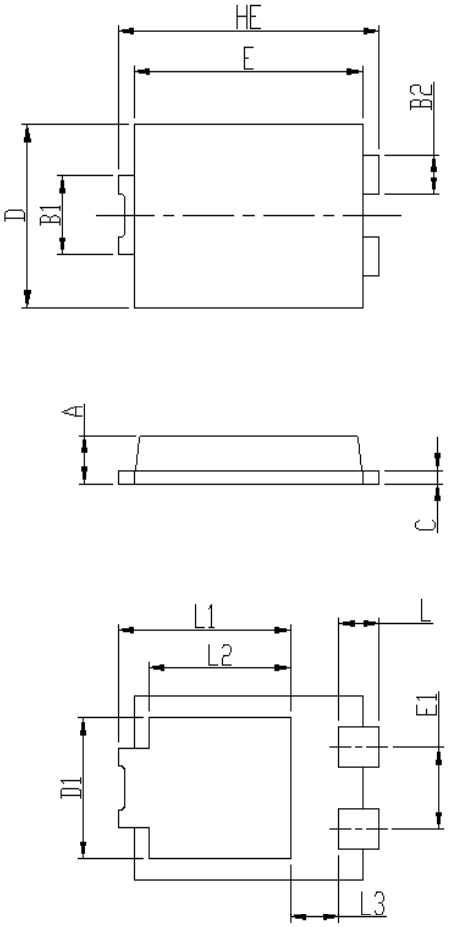


FIG.4：TYPICAL REVERSE CHARACTERISTICS

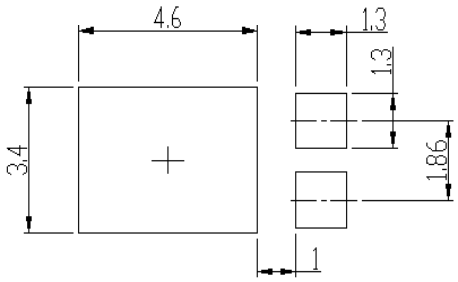


TO- 277 Package Outline Dimensions



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	0.2	0.4	0.008	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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