Surface Mount Schottky Rectifier
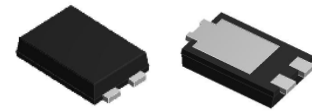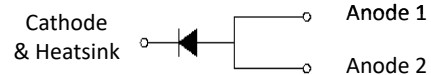## Reverse Voltage 60V , Forward Current 15A

Features

- Schottky barrier diodes
- Low forward voltage drop
- Low leakage current
- Moisture sensitivity: level 1, per J-STD-020
- Solder dip 260 °C, 10 s
- Low profile
- Heatsink design

TO-277

Cathode & Heatsink — Anode 1 / Anode 2

TYPICAL APPLICATIONS

For low voltage high frequency inverters, DC/DC converters and polarity protection application.

Maximum Ratings （Ta=25℃ Unless otherwise specified）

Item	Symbol	Unit	Conditions	SS15U60
Repetitive Peak Reverse Voltage	V_{RRM}	V		60
Average Rectified Output Current	I_O	A	60HZ sine wave, R- load, Ta=25℃	15
Surge(Non-repetitive)Forward Current	IFSM	A	60HZ sine wave, 1 cycle, T_a=25℃	300
Current Squared Time	I^2t	A^2s	1ms≤t＜8.3ms T_j=25℃	373
Storage Temperature	T_{stg}	℃		-55 ~ +150
Junction Temperature	T_j	℃		-55~+150
Thermal Resistance(Typical)	$R_{θJ-C}$	℃/W	Between Junction and Case	8

■ Electrical Characteristics （Ta=25℃ Unless otherwise specified）

Item	Symbol	Unit	Test Condition	Min	Typ	Max
Peak Forward Voltage	V_{FM}	V	I FM =15.0A,Tj=25℃	-	0.46	0.50
			IFM =15.0A,Tj=125℃	-	0.42	0.46
Reverse Breakdown Voltage	V_{BR}	V	IR=0.5mA	60	-	-
Leakage Current	IR	mA	VR=60V，Tj=25℃	-	-	0.5
			VR=60V，Tj=125℃	-	-	50

Rating and Characteristic Curves

FIG1: IF（AV）--TL Derating
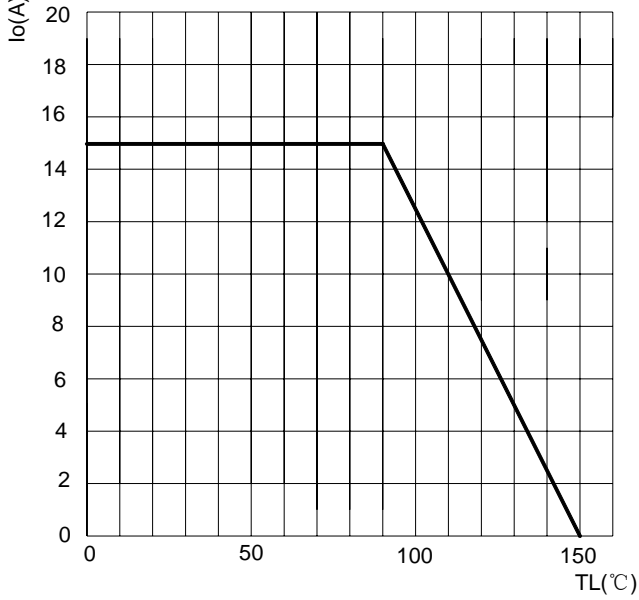
FIG2:Surge Forward Current Capadility

8.3ms Single Half Since-Wave
JEDEC Method
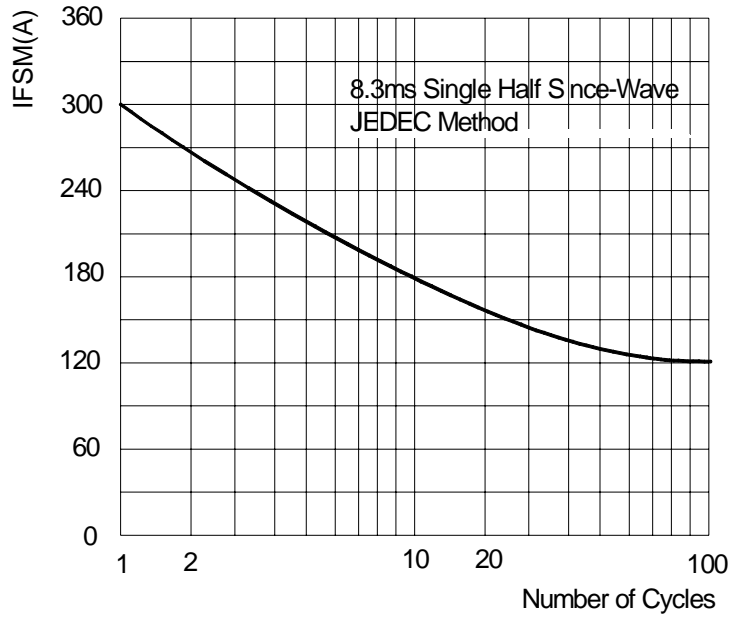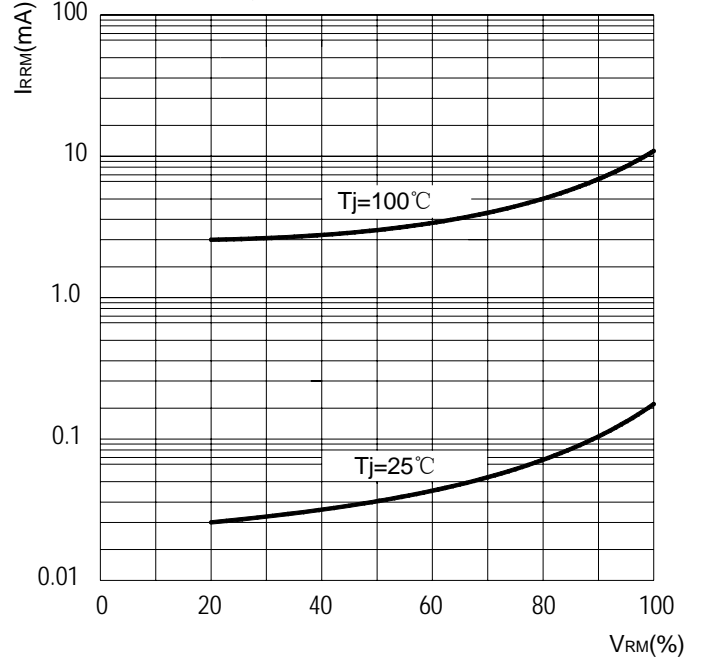
FIG3:Instantaneous Forward Voltage

Ta=25℃
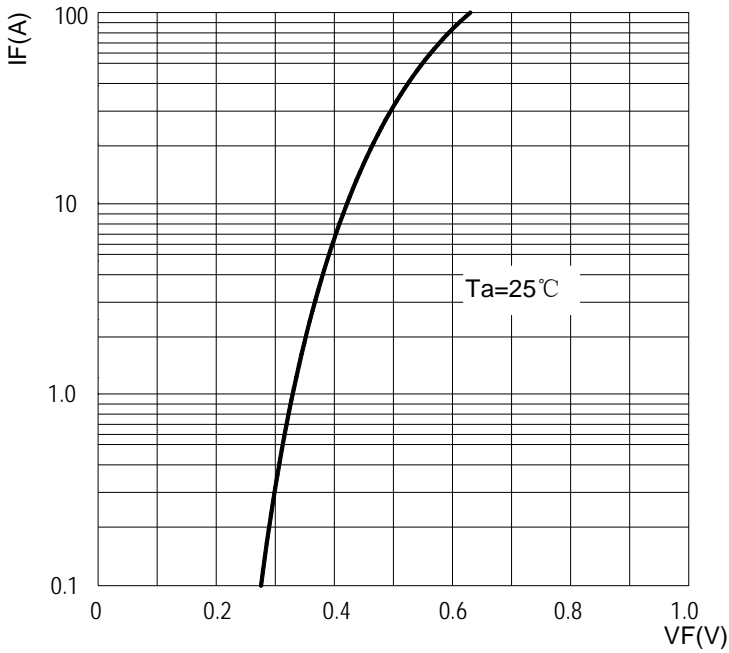
FIG4:Typical Reverse Characteristics

Tj=100℃

Tj=25℃

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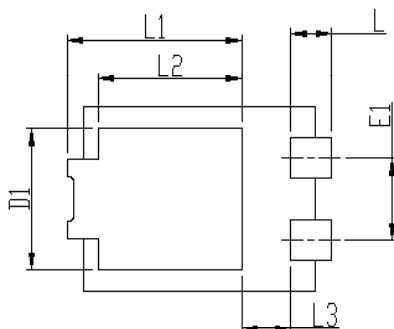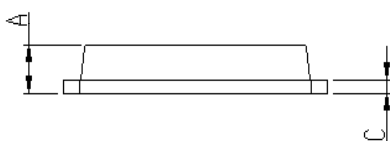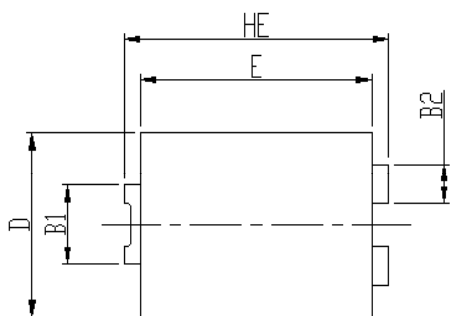
DIM	Unit: mm		Unit: inch	
	MIN	MAX	MIN	MAX
HE	6.4	6.6	0.252	0.260
E	5.6	5.8	0.220	0.228
D	4.1	4.3	0.161	0.169
B1	1.7	1.9	0.067	0.075
B2	0.8	1	0.031	0.039
A	1.05	1.2	0.041	0.047
C	0.3	0.4	0.012	0.016
L	0.85	1.1	0.033	0.043
L1	4.2	4.4	0.165	0.173
L2	3.52 Typ.		0.139 Typ.	
L3	1.1	1.4	0.043	0.055
D1	3	3.3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

Soldering footprint
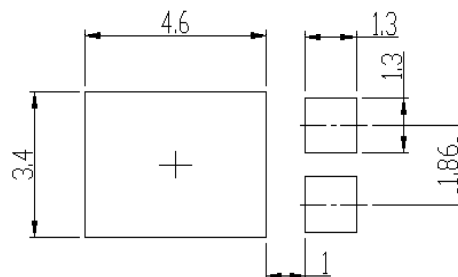
PACKING INFORMATION

Packing quantities:

5000 pcs/Reel，12mm Tape, 13" Reel