LITE-ON SEMICONDUCTORS

1SS355F

SURFACE MOUNT
FAST SWITCHING DIODE

REVERSE VOLTAGE – 80 Volts
FORWARD CURRENT – 0.15 Ampere

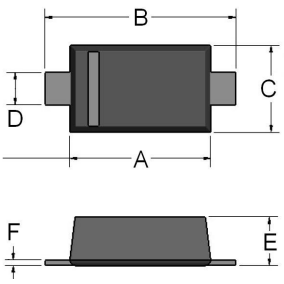
FEATURES

- Fast switching device (Trr < 4.0 ns)
- SOD-323F package
- Surface device type mounting
- General Purpose Diodes
- Green EMC
- Matte Tin(Sn) Lead Finish
- RoHS compliant
- Band Indicates Cathode

MECHANICAL DATA

- Polarity: Color band denotes cathode

SOD-323F



SOD-323F		
DIM.	MIN.	MAX.
A	1.60	1.80
B	2.30	2.70
C	1.15	1.35
D	0.25	0.40
E	0.80	1.00
F	0.05	0.25
All Dimensions in millimeter		

Maximum Ratings & Thermal Characteristics @ T_A = 25℃ unless otherwise specified

Characteristic	Symbol	1SS355F	Units
Reverse Voltage	V_R	80	V
Non-Repetitive Peak Forward Current	I_{FM}	250	mA
Average Rectified Output Current	I_O	150	mA
Power Dissipation	P_D	200	mW
Operating Temperature Range	T_J	+150	℃
Storage Temperature Range	T_{STG}	-65~+150	℃
Repetitive Peak Reverse Voltage	VRM	90	V
Repetitive Peak Forward Current	IFRM	500	mA

Electrical Characteristics @ T_A = 25℃ unless otherwise specified

Characteristic	Test Condition	Symbol	1SS355F	Unit
Breakdown voltage	IR=100uA	BV	80	V
Maximum Forward Voltage	I_F = 100mA	V_F	1200	mV
Maximum DC Reverse Current at Rated DC Blocking Voltage	V_R = 80V	I_R	100	nA
Typical Diode Capacitance	V_R =0.5V,f=1MHz	C_D	4	pF
Reverse Recovery time	I_F=10mA V_R=6V R_L=100Ω	trr	4	ns

REV. 0, Aug-2011, KSYR87

RATING AND CHARACTERISTIC CURVES
1SS355F

Figure 1. Power Dissipation vs Ambient Temperature

Valid provided leads at a distance of 0.8mm from case are kept at ambient temperature

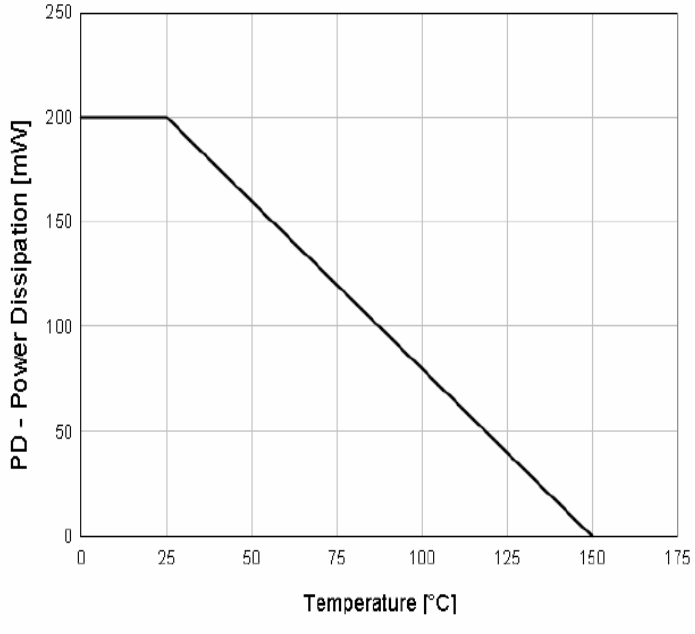


Figure 2. Total Capacitance

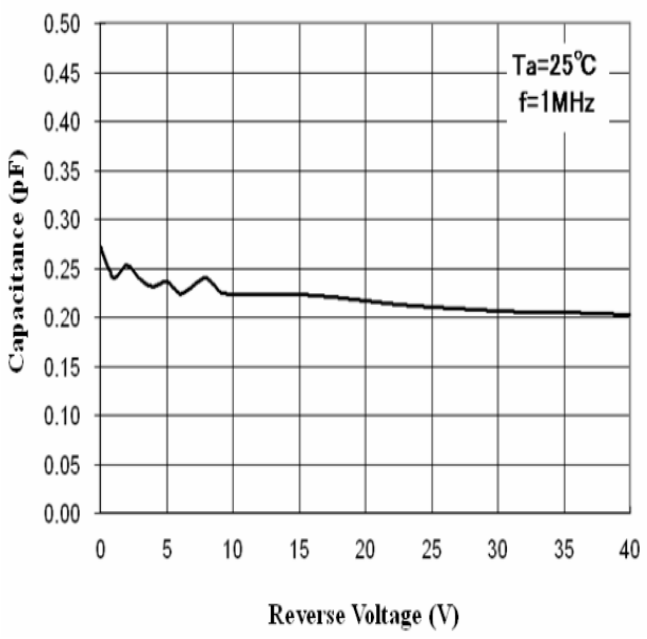


Figure 3. Reverse Voltage vs Reverse Current

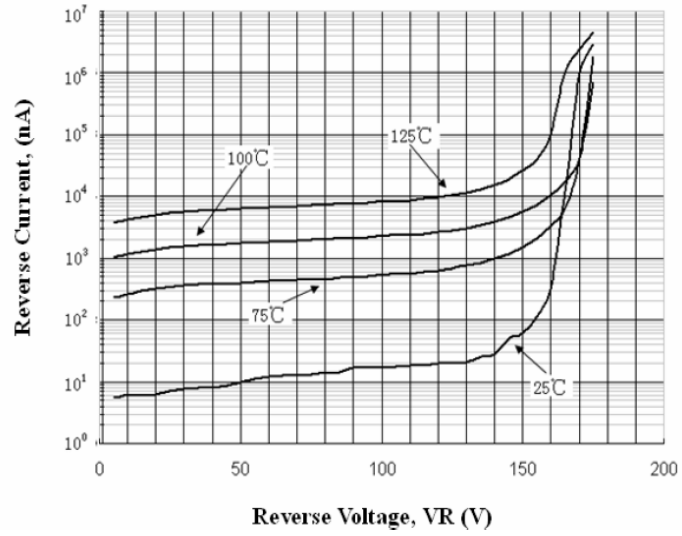
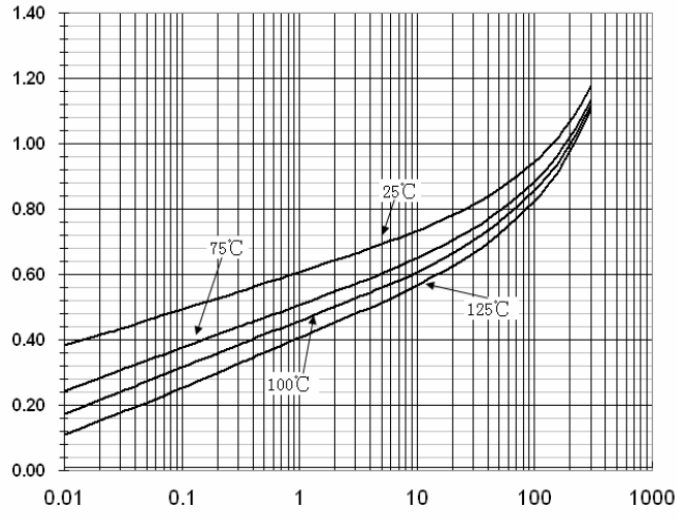


Figure 4. Forward Voltage vs Ambient Temperature



Device Marking:

Device P/N	Marking code	Equivalent Circuit Diagram
1SS355F	S4	1 ○—▶|—○ 2

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