

Small-Signal Switching Diodes

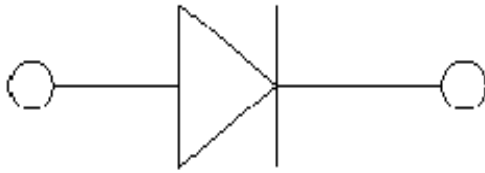


Features

- V_R 80V
- I_{FAV} 150mA

Typical Applications

- Extreme fast switches



Mechanical Data

- **Package:** SOD323
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end
- **Marking:** A

■Maximum Ratings ($T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Repetitive peak reverse voltage	V_{RRM}	V		90
Maximum DC Blocking	V_{DC}	V		80
Peak forward surge current	I_{FSM}	A	$t_p=1\mu\text{s}$	2
Average forward current	I_{FAV}	mA		150
Power dissipation	P_{tot}	mW		200
Maximum junction temperature	T_J	$^\circ\text{C}$		-65 to +150
Storage temperature range	T_{stg}	$^\circ\text{C}$		-65 to +150

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

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Maximum Forward voltage	V_F	mV	$I_F=100\text{mA}$	1200
Maximum Reverse current	I_R	nA	$V_R=80\text{V}$	100
Minimum Breakdown voltage	V_R	V	$I_R=1\mu\text{A}$	80
Maximum Diode capacitance	C_D	pF	$V_R=6.0\text{V}, f=1\text{MHz}$	3.0
Maximum Reverse recovery time	t_{rr}	ns	$I_F=10\text{mA}, V_R=6\text{V}$	4



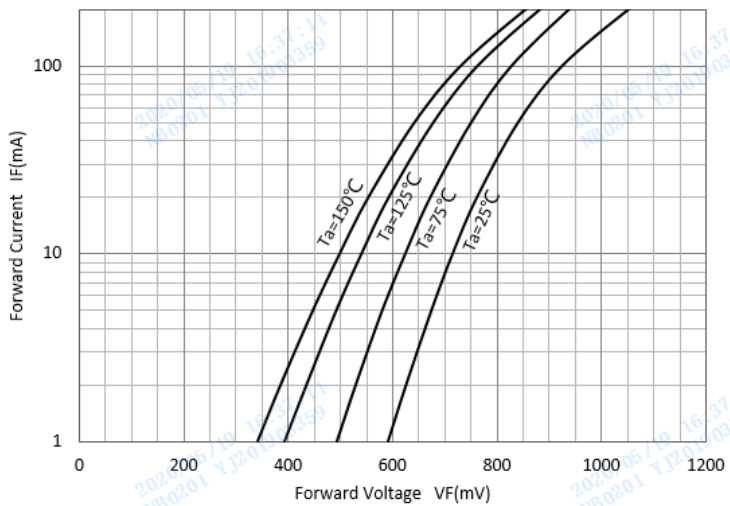
1SS355

■ Ordering Information (Example)

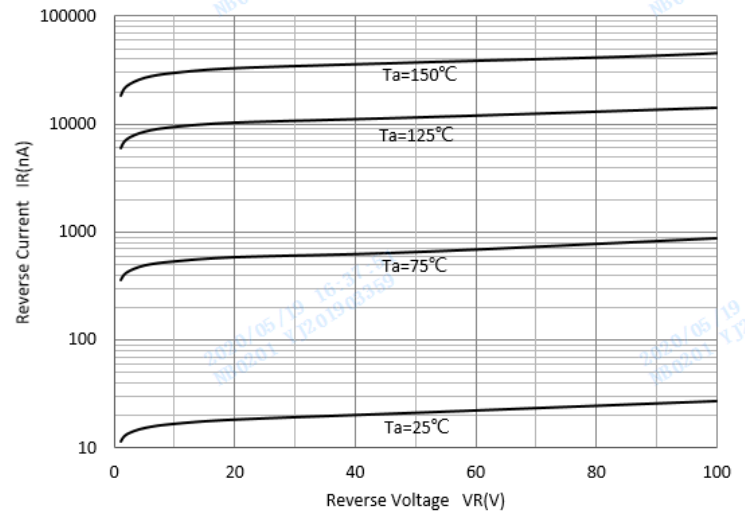
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
1SS355	F2	Approximate 0.0048	3000	30000	120000	7" reel

■ Characteristics (Typical)

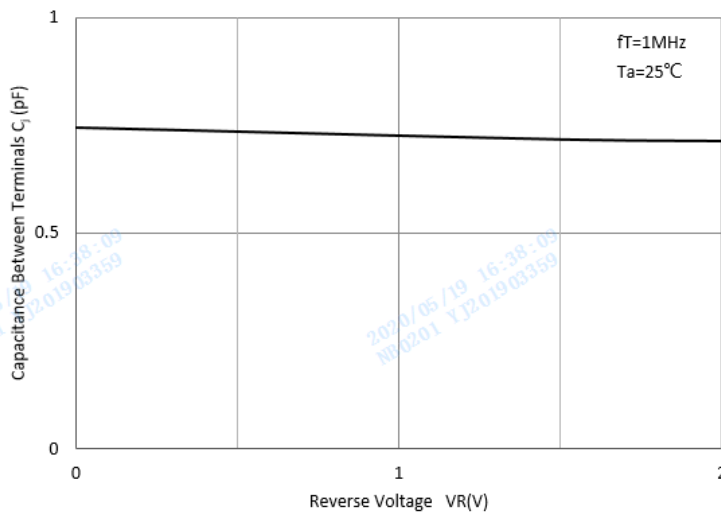
VF-IF



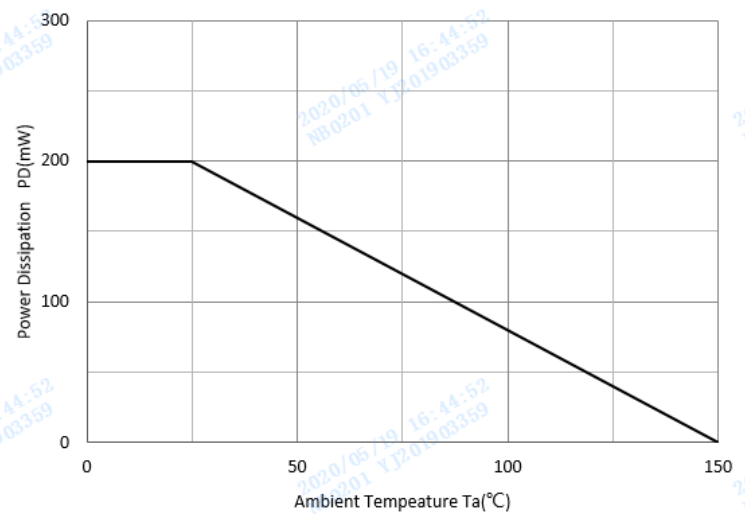
IR-VR



Cj-VR

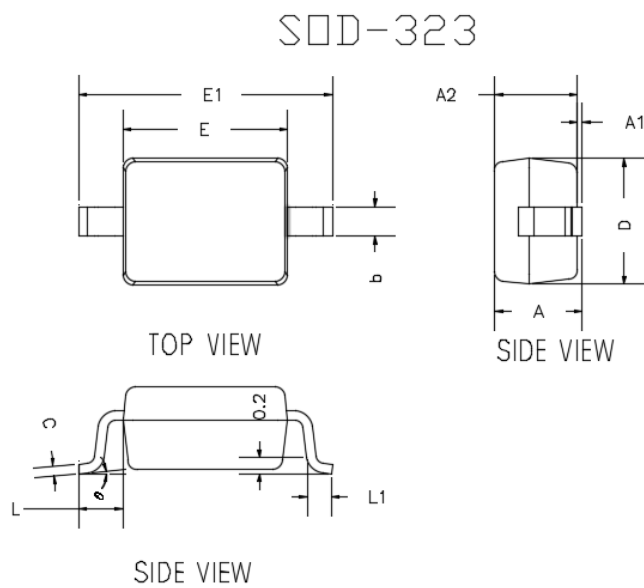


Power Derating Curve



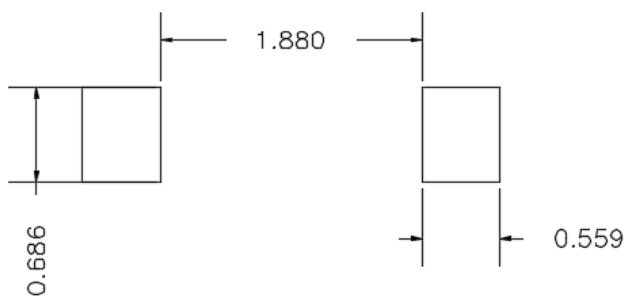


■Outline Dimensions



DIMENSIONS				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	---	0.0393	---	1.0000
A1	0.0000	0.0039	0.0000	0.1000
A2	0.0314	0.0354	0.8000	0.9000
b	0.0098	0.0157	0.2500	0.4000
c	0.0031	0.0059	0.0800	0.1500
D	0.0472	0.0551	1.2000	1.4000
E	0.0629	0.0709	1.6000	1.8000
E1	0.0984	0.1063	2.5000	2.7000
L	0.0187TYP		0.475TYP	
L1	0.0098	0.0157	0.250	0.400
θ	0°	8°	0°	8°

■Soldering Footprint



UNIT: mm

SUGGESTED SOLDER PAD LAYOUT



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