

1SS357

45 Volt Switching Diode

Features

- High speed switching diode
- Surface mount
- For general purpose switching applications
- Marking: S31
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1

Mechanical Data

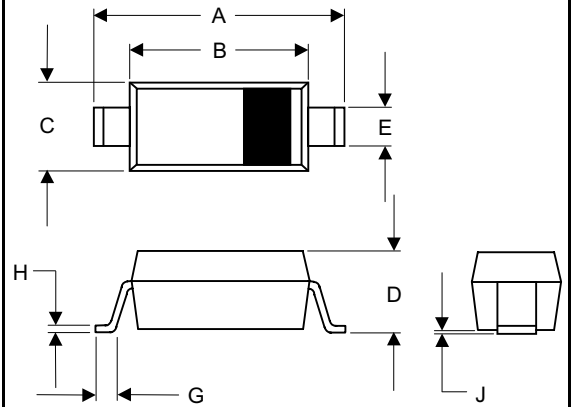
- Case: SOD-323, Molded Plastic
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: Indicated by Cathode Band
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)

Maximum Ratings @ 25° C Unless Otherwise Specified

CHARACTERISTICS	SYMBOL	RATING	UNIT
Maximum Reverse Voltage	VRM	45	V
Reverse Voltage	VR	40	V
Average Forward Current	IO	100	mA
Peak forward surge current	IFSM	1	A
Power Dissipation	P	200	mW
Junction Temperature	TJ	125	°C
Storage Temperature Range	TSTG	-55~125	°C

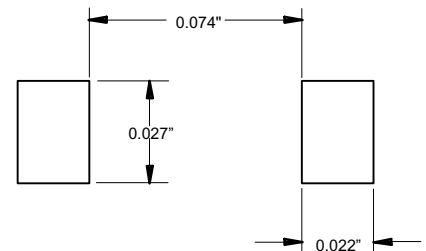
CHARACTERISTICS	SYMBOL	Typ	Max	Unit	Conditions
Forward Voltage	VF	0.28		V	IF=1 mA
		0.36			IF=10 mA
			0.6		IF=100 mA
Reverse Current	IR		5	uA	VR=40V
Total Capacitance	CT	18	25	PF	VR=0V, f=1MHZ

SOD-323



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.090	.107	2.30	2.70	
B	.063	.071	1.60	1.80	
C	.045	.053	1.15	1.35	
D	.031	.045	0.80	1.15	
E	.010	.016	0.25	0.40	
G	.004	.018	0.10	0.45	
H	.004	.010	0.10	0.25	
J	-----	.006	-----	0.15	

SUGGESTED SOLDER PAD LAYOUT



Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel;3Kpcs/Reel

