

350mW SOD- 123 Fast Switching Diode

Features

- 100nS; Fast switching device (TRR <100 nS)
- 350mW; Power d issipation of 350mW
- High stability and high reliability
- Low reverse leakage

Mechanical Data

- SOD-123 Small o utline plastic package
- Polarity: color band denotes cathode end
- Epoxy UL: 94V-0
- Mounting position: any





Marking: 35XT

SOD-123



Maximum Ratings & Thermal Characteristics (T _A =25°C unless otherwise noted)					
Parameters	Symbol	Value	Unit		
Reverse voltage	V _R	350	V		
Peak reverse voltage	V_{RM}	350	V		
Power dissipation	P _D	350	mW		
Operating junction temperature	T _j	150	$^{\circ}$		
Storage temperature range	T _{STG}	-65-+150	$^{\circ}$ C		
Typical thermal resi stance	$R_{ heta_{ m JA}} \ R_{ heta m JC}$	250 5	°C/W		
Average rectified current	Io	150	mA		
Non-repetitive pak frward crrent	I _{FM}	300	mA		
Peak frward surge crrent @tp=1us; TA=25 °C	I _{FSM}	1.0	Α		
Working Inverse voltage	W _{IV}	75	V		

Valid provided that electrodes are kept at ambient temperature.

Electrical Characteristics (T _A =25°C unless otherwise noted)							
Parameter		Test Condition	Limits		I		
	Symbols		Min	Max	Unit		
Reverse voltage	VRB	IR=100uA	350		V		
Reverse leakage current	lR	VR=240V		100	nA		
		IF=20mA		0.87			
Forward voltage	VF	IF=100mA		1.00	V		
	VF	IF=200mA		1.25			
Reverse recovery time		IF =30mA IR = 30mA,					
	Trr	Irr=3mA		100	nS		
		RL=100Ω					
Capacitance	С	VR=0V, f=1MHZ		5	pF		

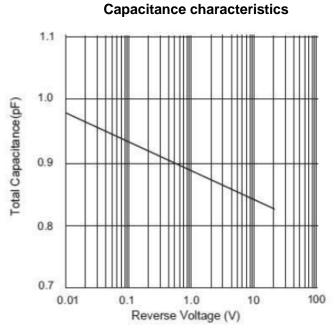




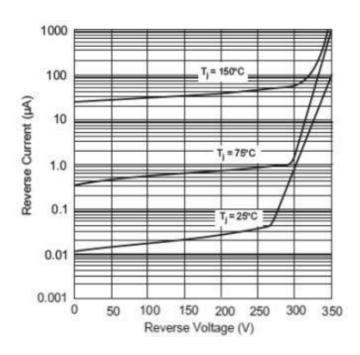
Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

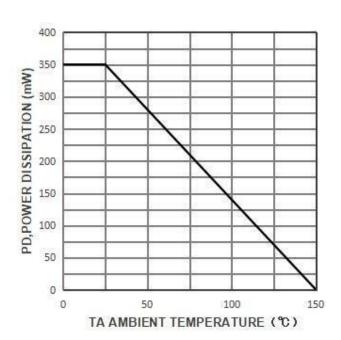
Forward characteristics 1000 100 100 T_j = 150°C 1.0 0.1 0.01 0.400 800 1200 1600 2000 Forward Voltage (mV)



Reverse Chracteristics



Power Derating Curve

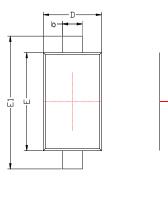


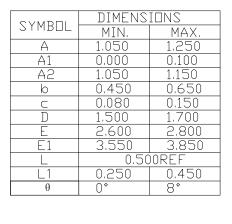


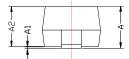


Package Outline Dimensions

in inches (millimeters)







Revision History

Document Version	Date of release	Description of changes
Rev.A	2015.07.21	First issue





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