

Small Signal Product

Fast Recovery Rectifier Diode

FEATURES

- Surface mount device type
- Moisture sensitivity level (MSL): 3
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21
- High frequency rectifier







SOD-123

MECHANICAL DATA

- Case: Bend lead SOD-123 small outline plastic package
- Terminal: Matte tin plated, lead free, solderable per MIL-STD-202, Method 208 guaranteed
- High temperature soldering guaranteed: 260°C/10s
- Polarity: Indicated by cathode band
- Marking: E6D

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MAXIMUM RATINGS AND ELECTRICAL CHARAC	CTERISTICS (T _A =	25°C unless otherwise noted)	
PARAMETER	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse Voltage	V _{RRM}	000	
Working Peak Reverse Voltage	V _{RWM}	600	V
RMS Reverse Voltage	V _{R(RMS)}	420	V
Average Rectified Output Current	l _o	0.4	А
Non-Repetitive Peak Forward Surge Current @ 🛤 8.3 ms	I _{FSM}	16	А
Power Dissipation	P _D	415	mW
Thermal Resistance from Junction to Ambient	R _{eja}	301	°C/W
Junction Temperature	TJ	150	°C

PARAMETER	SYMBOL	MIN	ТҮР	MAX	TEST CONDITION	UNIT
Reverse Leakage Current	I _R	-	-	10	V _R =600V	μA
Forward Voltage	V _F	-	-	1.32	I _F =0.4A	V
Total Capacitance	C _{tot}	-	15	-	V _R =0V, f=1.0MHz	pF
Reverse Recovery Time (Note 1)	t _{rr}	-	-	40	-	ns

Notes: 1. Test conditions: I_F=0.5A, I_R=1A, I_{RR}=0.25A



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Taiwan Semiconductor

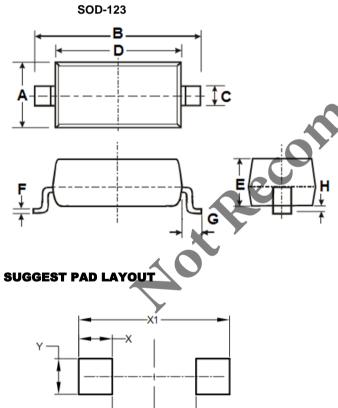
ORDERING INFORMATION					
PART NO.	PACKING CODE	PACKING CODE SUFFIX	PACKAGE	PACKING	
SD101xW (Note 1 & 2)	RI	G	SOD-123	3K / 7" Reel	

Note :1, "x" is Device Code from "A" - "C".

2, Whole series with green compound

EXAMPLE						
EXAMPLE P/N	PART NO.	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION		
ES0406D1 RIG	ES0406D1	RI	G	Green compound		

PACKAGE OUTLINE DIMENSIONS



G

ded				
DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
A	1.40	1.80	0.055	0.071
В	3.55	3.85	0.140	0.152
С	0.45	0.70	0.018	0.028
D	2.55	2.85	0.100	0.112
E	0.95	1.35	0.037	0.053
F	0.05	0.15	0.002	0.006
G	0.50 REF		0.02	REF
Н	-	0.10	-	0.004

DIM.	Unit (mm)	Unit (inch)
DIN.	Min	Min
G	2.25	0.089
Х	0.90	0.035
X1	4.05	0.159
Y	0.95	0.037



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