

Current Regulative Diode

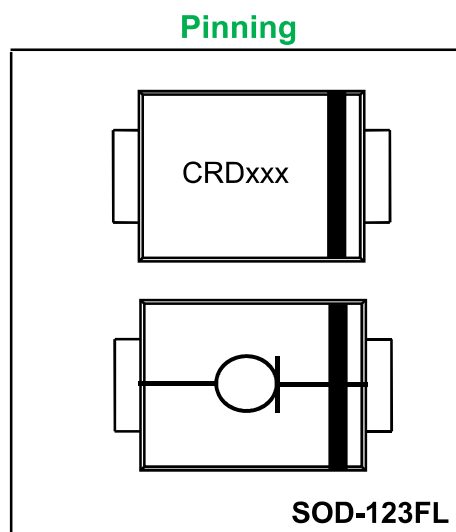
Surface Mount - 15-80mA

Description

CRD is diode which supplies constant current to an electric circuit, even when power supply voltage fluctuations or load impedance fluctuations occur. CRD is used for current stabilization and current limiting.

Features

- ◆Silicon technology
- ◆Low power loss
- ◆high efficiency
- ◆Eliminate voltage overshoot
- ◆Epoxy resin package
- ◆Will not fatigue
- ◆RoHS Compliant



Echanical Characteristics

- ◆Package: SOD-123FL
- ◆Lead Finish: Matte Tin
- ◆Case Material: Epoxy Molding Compound.
- ◆UL Flammability Classification Rating 94V-0
- ◆Moisture Sensitivity: Level 1 per J-STD-020

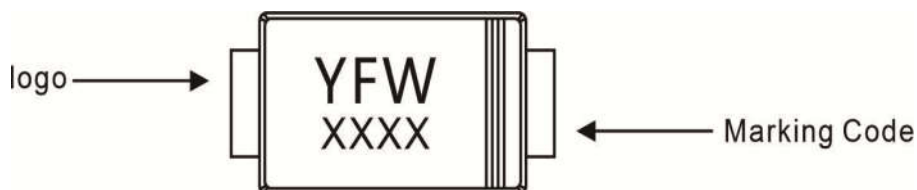
Absolute Maximum Ratings

Parameter	Symbol	Value	Units
Operating Temperature Range	T _J	-55 to 150	℃
Storage Temperature Range	T _{STG}	-55 to 150	℃

Electrical Characteristics (TA=25°C unless otherwise noted)

Part Number	Marking Code	Pinch-Off Current $I_P @ V=20V$		Active Voltage V_K	Max. Voltage Loading $V_B \text{ max}$	Max. Power Loading P_D
		min	max	$V_K @ 0.8I_{Pmin}$	$V_B @ 1.1I_{Pmax}$	max
		[mA]	[mA]	Max [V]	[V]	[W]
CRD015D	015D	12	18	3.2	190	1.2
CRD020D	020D	16	24	3.5	190	1.2
CRD025D	025D	22.5	27.5	4.0	190	1.2
CRD030D	030D	27	33	4.8	190	1.2
CRD040D	040D	36	44	6.0	190	1.2
CRD060D	060D	54	66	7.0	190	1.2
CRD080D	080D	72	88	8.0	190	1.2

Marking Diagram



Ordering information

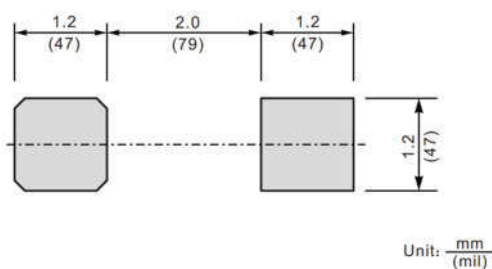
Package	Packing Description	Packing Quantity
SOD-123FL	Tape/Reel, 7" reel	3000PCS/Reel 120000PCS/Carton

Package Dimensions

SOD-123FL

Dim.	Millimeter(mm)		mil	
	Min.	Max.	Min.	Max.
A	0.9	1.3	35	43
C	0.12	0.20	4.7	7.9
D	2.6	2.9	102	114
E	1.7	1.9	67	75
e	0.8	1.1	31	43
g	0.7	0.9	28	35
HE	3.5	3.8	138	150
∠	7°			

The recommended mounting pad size



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