

Current Regulative Diode Surface Mount - 10-80mA - CRDxxxD

CRDxxxD 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

Mechanical Characteristics

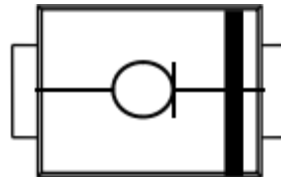
- . Package: SOD-123FL
- . Lead Finish: Matte Tin
- . Case Material: Epoxy Molding Compound.
- . UL Flammability Classification Rating 94V-0
- . Moisture Sensitivity: Level 1 per J-STD-020

Marking Information



CRDxxx = Marking Code

Pin Configuration





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Absolute Maximum Ratings

Parameter	Symbol	Value	Units
Operating Temperature Range	T_J	-55 to 150	°C
Storage Temperature Range	T_{STG}	-55 to 150	°C

Electrical Characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

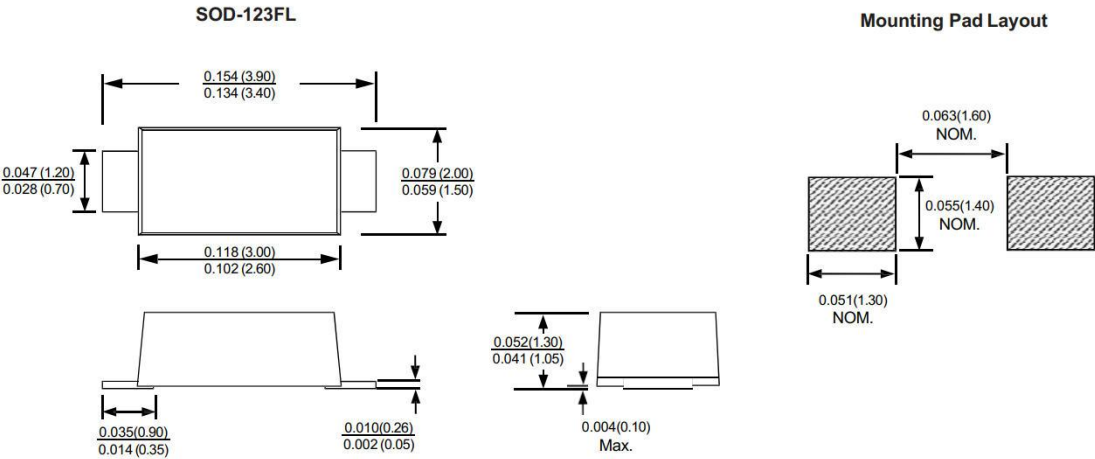
Part Number	Marking Code	Pinch-Off Current $I_P @ V=20V$		Active Voltage V_K	Max. Voltage Loading $V_B \text{ max}$	Max. Power Loading P_D
		min	max	$V_K @ 0.8I_{Pmin}$	$V_B @ 1.1I_{Pmax}$	max
		[mA]	[mA]	Max [V]	[V]	[w]
CRD010D	C010	8	12	3.0	190	0.5
CRD015D	C015	12	18	3.2	190	0.5
CRD020D	C020	16	24	3.5	190	0.5
CRD025D	C025	22.5	27.5	4.0	190	0.5
CRD030D	C030	27	33	4.8	190	0.5
CRD040D	C040	36	44	6.0	190	0.5
CRD060D	C060	54	66	7.0	190	0.5
CRD080D	C080	72	88	8.0	190	0.5



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Package Outline Dimensions in inches (millimeters)



Summary of Packing Options

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