OptoSupply
Light It Up

# CURRENT REGULATIVE DIODE （CRD）

- CRD is a diode which supplies constant current to an electric circuit, when power supply voltage fluctuations or load impedance fluctuations occur.
- CRD is used for current stabilization and current limiting.
- CRD is offered on TO-92

■Features

- Robust Power Package:460mW
- Wide Operating Voltage Range
- Immediate Turn-On
- Voltage Surge Suppressing – Protecting LEDs

■Outline Dimension

Unit:mm
Tolerance:±0.3mm

Common Anode

Common Cathode
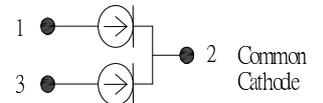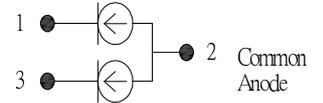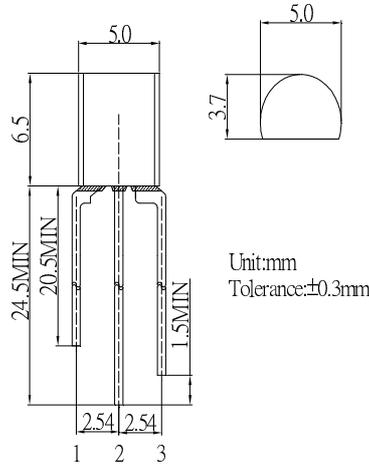
■Absolute Maximum Rating　(Ta=25℃)

Item	Symbol	Value	Unit
Junction Temperature	Tj	125	℃
Storage Temperature	Tstg	-40~ +125	℃
Collector Dissipation	Pc	0.75*2	W

■Electrical -Optical Characteristics　(Ta=25℃)

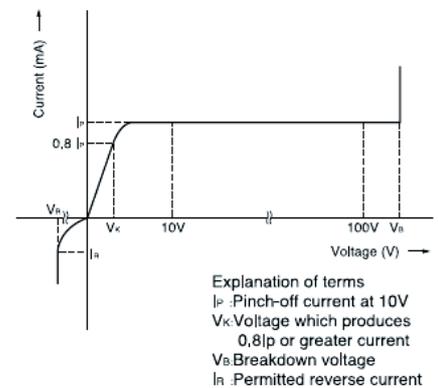| Part Number	Color Marking	Constant Current(I_H)		Turn-on voltage(Vk)		Limiting ratio (Kc)	Withstand Voltage
		I_H	Voltage(v)	Vk(V)	Ik (MA)	I_{30V}/I_{10V}	（V）
OSCRDT216-A	Light Green Diffused	13-18	20	≤3.5	≤0.8I_H	≤1.1	>70
OSCRDT216-C	Light Blue Diffused	13-18	20	≤3.5	≤0.8I_H	≤1.1	>70
OSCRDT235-A	Dark Green Diffused	28-36	20	≤3.5	≤0.8I_H	≤1.1	>70
OSCRDT235-C	Dark Blue Diffused	28-36	20	≤3.5	≤0.8I_H	≤1.1	>70

■Application

- Automobile: Chevron Side Mirror Markers, Cluster, Display & Instrument Backlighting, CHMSL, Map Light
- D C Lighting Panels, Display Signage, Decorative Lighting, Channel　Lettering
- Switch Contact Wetting

■Application Information

Single Current
①

Double Current
②

■Basic Characteristics

Explanation of terms
I_P :Pinch-off current at 10V
V_K:Voltage which produces 0,8Ip or greater current
V_B:Breakdown voltage
I_R :Permitted reverse current
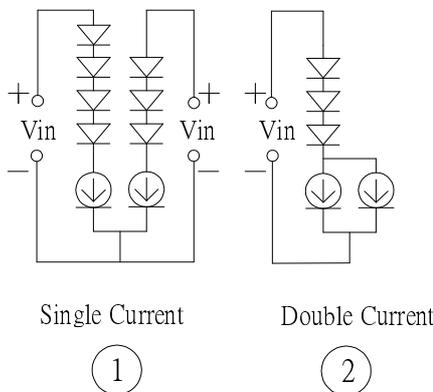
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