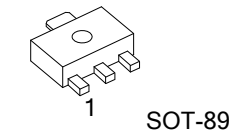
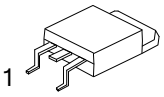
UCR2050

CURRENT REGULATIVE DIODE

CURRENT REGULATOR DIODES



SOT-89



TO-252

■ DESCRIPTION

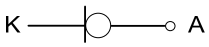
The UTC **UCR2050** is a CRD diode, which supplies constant current to an electric circuit, even if the power supply voltage fluctuations or load impedance fluctuations occur, can steady a current at a fixed value.

CRD diode is used for current stabilization and current limiting.

■ FEATURES

* Than 1V or less low voltage constant current implementation
* Maximum voltage of 100V or more
* Good frequency response characteristics
* AC equivalent impedance is high
* Negative temperature coefficient
* Low start-up voltage
* DC equivalent impedance is low

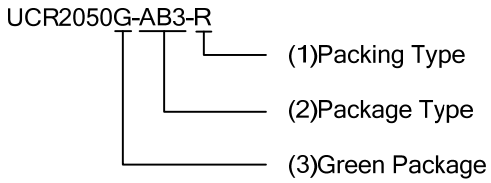
■ SYMBOL



■ ORDERING INFORMATION

Ordering Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
-	UCR2050G-AB3-R	SOT-89	K	K	A	Tape Reel
UCR2050L-TN3-R	UCR2050G-TN3-R	TO-252	K	K	A	Tape Reel

Note: Pin Assignment: A: Anode K: Cathode

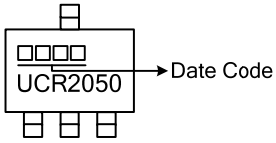
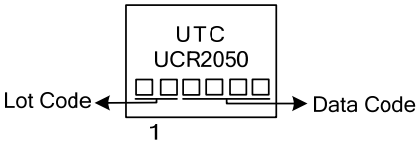


(1) T: Tube, R: Tape Reel

(2) AB3: SOT-89, TN3: TO-252

(3) L: Lead Free, G: Halogen Free and Lead Free

■ MARKING

SOT-89	TO-252
	

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■ ABSOLUTE MAXIMUM RATINGS (T_A=25°C, unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNIT
Peak Operating Voltage	P_{OV}	100	V
Power Dissipation	P_D	0.5	W
Operating Junction Temperature	T_J	+125	°C
Storage Temperature	T_{STG}	-40 ~ +125	°C

Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

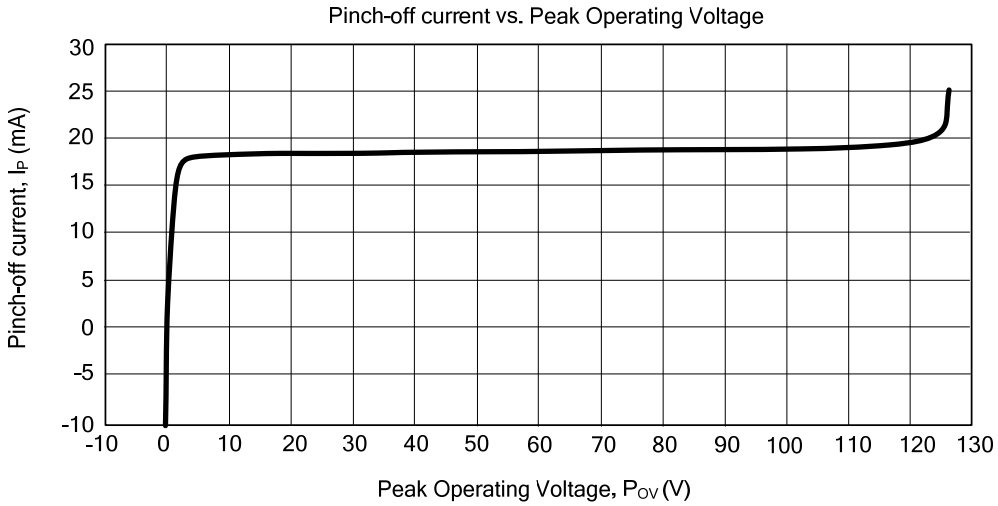
■ THERMAL CHARACTERISTICS

PARAMETER		SYMBOL	RATINGS	UNIT
Typical Thermal Resistance	SOT-89	θ_{JC}	43	°C/W
	TO-252		6	°C/W

■ ELECTRICAL CHARACTERISTICS (PER LEG) (T_A=25°C unless otherwise specified.)

Test Voltage	Pinch-off current			Limiting Current		Limiting Current Ratio
(V)	I_P (mA)			V_K (V)	I_K (mA)	I_{30V} / I_P
	MIN.	TYP.	MAX.			
10	17.0	20.5	24.0	≦4	0.8 I_P	≦1.1

■ TYPICAL CHARACTERISTICS



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