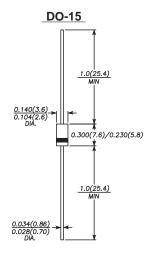
# E153 THRU E603

## **CURRENT REGULATOR DIODES**

Pinch-off Current - 15 to 60 milliampere



Dimensions in inches and (millimeters)

## **FEATURES**

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- ◆ High temperature soldering guaranteed: 250°C/10 seconds at terminals

#### **MECHANICAL DATA**

Case: JEDEC DO-15 molded plastic body

Terminals: Plated axial leads, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.014 ounce, 0.40 grams

### **MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOLS	E153	E183	E203	E253	E353	E603	UNITS
Regulator current at specified test	lР	15	18	20	25	35	60	mA
Knee impedance test voltage at I=0.8l <sub>P</sub>	Vĸ	3.0						VOLTS
Peak operating voltage	Vво	100.0						VOLTS
A 90Hz signal Vκ with RMS value equal to 10% of test voltage,Vκ ,is superimposed on Vκ:Rκ=Vκ/Iκ	Rdk	10 to 300						Ohm
DC power	Ptot	1.0						Watt
Operating junction and storage temperature range	ТЈ,Тѕтс	-50 to +150						°C
Typical temperature coefficient	Тс	-0.200	0.15	-0.200.15	-0.230.35	-0.250.45	-0.250.45	%/°C

Note:1.Field-effect current regulator diodes are circuit elements that provide a current essentially independent of voltage. These diodes are especially designed for maximum impedance over the operating range. These devices may be used in parallel to obtain higher currents.

- 2.lp range of E562: 5.00~ 6.50mA.
- 3.Generally I<sub>P</sub> indicate  $\pm$ 10% tolerance; suffix "A" indicate  $\pm$ 5% tolerance.

