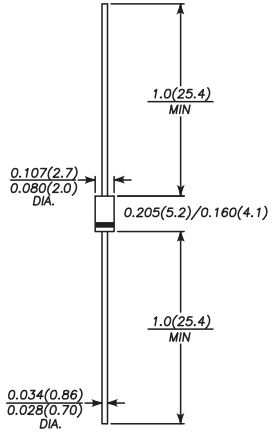
E153 THRU E603

CURRENT REGULATOR DIODES

Pinch-off Current - 15 to 60 milliampere

DO-41



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-41 molded plastic body
Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026
Polarity: Color band denotes cathode end
Mounting Position: Any
Weight:0.012 ounce, 0.33 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	I_P	15	18	20	25	35	60	mA
Knee impedance test voltage at I=0.8I_P	V_K	3.0						VOLTS
Peak operating voltage	V_{BO}	100.0						VOLTS
A 90Hz signal V_K with RMS value equal to 10% of test voltage,V_K ,is superimposed on V_K:R_K=V_K/I_K	R_{DK}	10 to 300						Ohm
DC power	P_{tot}	1.0						Watt
Operating junction and storage temperature range	T_J,T_{STG}	-50 to +150						°C
Typical temperature coefficient	T_C	-0.20_-0.15		-0.20_-0.15	-0.23_-0.35	-0.25_-0.45	-0.25_-0.45	%/°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.Ip range of E562: 5.00~ 6.50mA.

3.Generally I_P indicate ±10% tolerance ; suffix "A" indicate ±5% tolerance.

STAR SEA