

PFS

CURRENT REGULATOR DIODES

E562 THRU E603

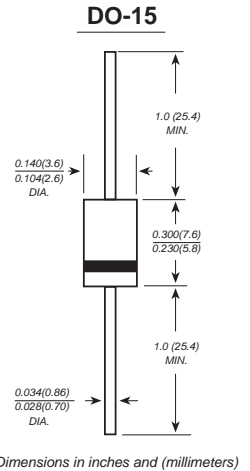
Pinch-off Current - 5.6 to 60 milliampere

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	E562	E103	E153	E183	E203	E223	E253	E303	E503	E603	UNITS
Regulator current at specified test	I_P	5.6	10	15	18	20	22	25	30	50	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}	1.5										Watt
Operating junction and storage temperature range	T_J, T_{STG}	-50 to +150										°C
Typical temperature coefficient	T_C	-0.20_-0.15			-0.23_-0.32			-0.23_-0.35		-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. I_P range of E562: 5.00~ 6.50mA.

3. Generally I_P indicate $\pm 10\%$ tolerance ; suffix "A" indicate $\pm 5\%$ tolerance.