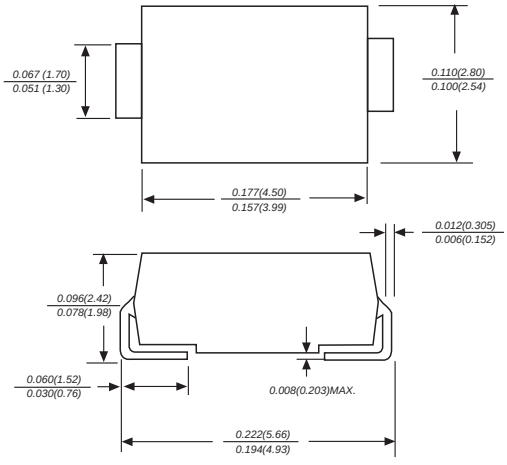
CURRENT REGULATOR DIODES

S562 THRU S603

Pinch-off Current - 5.6 to 60 milliampere

DO-214AC



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℃/10 seconds at terminals

MECHANICAL DATA

Case: JEDEC DO-214AC molded plastic body
Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
Polarity: Color band denotes cathode end
Mounting Position: Any
Weight:0.002 ounce, 0.07 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.

	SYMBOLS	S562	S103	S153	S183	S203	S223	S253	S303	S503	S603	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}	1.0										Watt
Operating junction and storage temperature range	T_J,T_{STG}	-50 to +150										℃
Typical temperature coefficient	T_C	-0.20_-0.15				-0.23_-0.32		-0.23_-0.35		-0.25_-0.45		%/℃

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 S562: 5.00~ 6.50mA.

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