

UNO International Corp.

EM513 THRU EM518

HIGH VOLTAGE

PLASTIC RECTIFIER

VOLTAGE: 1600 TO 2000V CURRENT: 1.0A

FEATURE

- Molded case feature for auto insertion
- High current capability
- Low leakage current
- High surge capability
- High temperature soldering guaranteed:
250°C/10sec/0.375" (9.5mm) lead length at 5 lbs tension

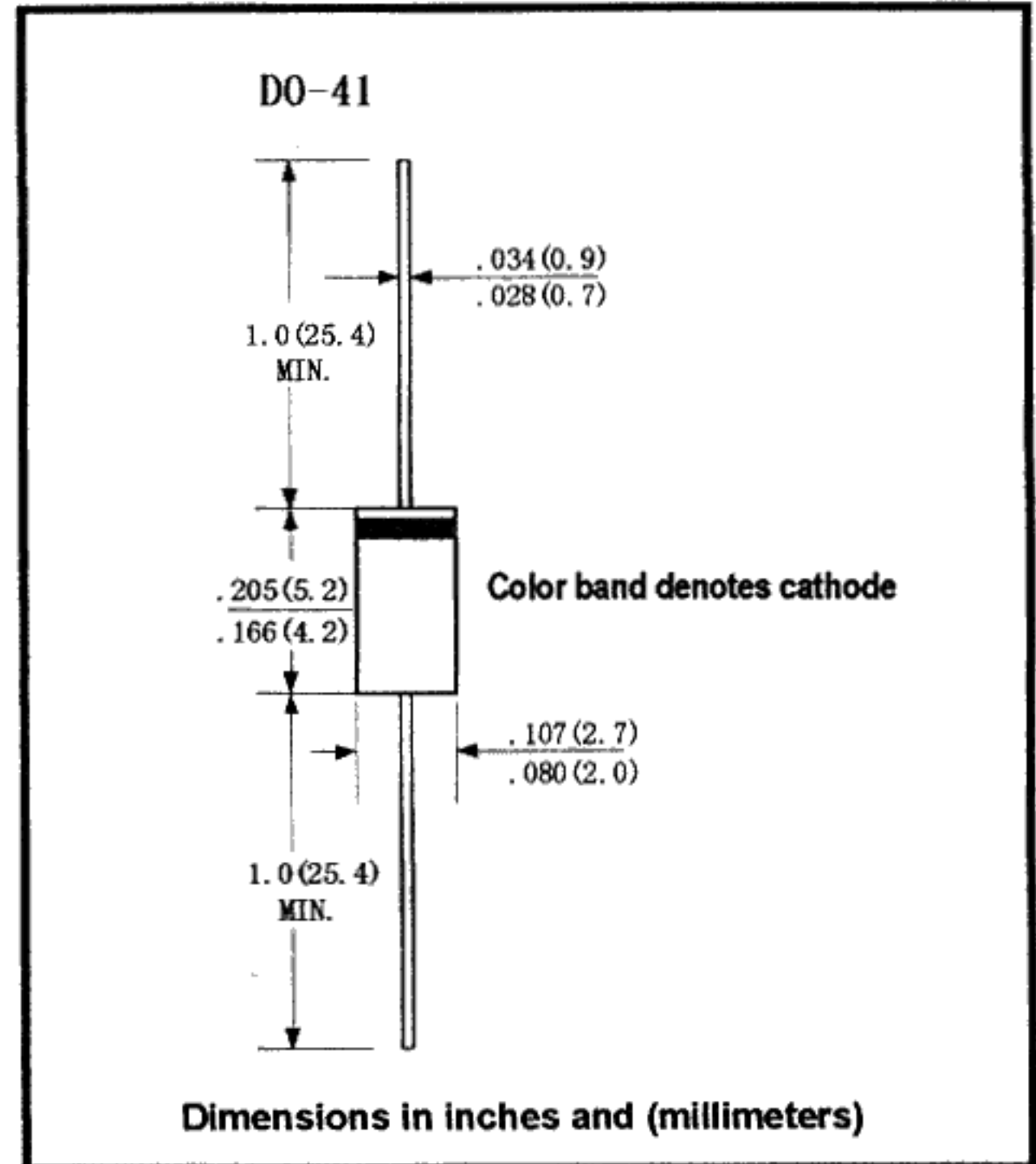
MECHANICAL DATA

Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C

Case: Molded with UL-94 Class V-O recognized flame retardant epoxy

Polarity: Color band denotes cathode

Mounting position: Any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated, for capacitive load, derate current by 20%)

RATINGS	SYMBOL	EM513	EM516	EM518	UNITS
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	1600	1800	2000	V
Maximum RMS Voltage	V_{RMS}	1120	1260	1400	V
Maximum DC Blocking Voltage	V_{DC}	1600	1800	2000	V
Maximum Average Forward Rectified Current (9.5mm lead length, at $T_a=75^\circ\text{C}$)	$I_{F(AV)}$	1.0			A
Peak Forward Surge Current (8.3ms single half sine-wave superimposed on rated load)	I_{FSM}	30			A
Maximum Instantaneous Forward Voltage (at rated forward current)	V_F	1.1			V
Maximum DC Reverse Current $T_a=25^\circ\text{C}$ (at rated DC blocking voltage) $T_a=100^\circ\text{C}$	I_R	5.0 100			μA
Typical Junction Capacitance (Note 1)	C_J	10			pF
Typical Thermal Resistance (Note 2)	$R_\theta(ja)$	50			$^\circ\text{C}/\text{W}$
Storage and Operation Junction Temperature	T_{STG}, T_J	-50 to +175			$^\circ\text{C}$

Note:

1. Measured at 1.0 MHz and applied voltage of $4.0V_{dc}$

2. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C. board mounted