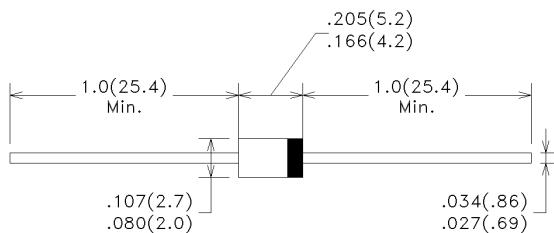


Forward Current - 1.0 Ampere
Reverse Voltage - 50 to 1000 Volts

Outline Dimensions DO - 41



Dimensions in inches and (millimeters)

FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- High speed switching
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed: 260°C/10 seconds at terminals

MECHANICAL DATA

Case: JEDEC DO-41 molded plastic body

Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.012 ounce, 0.30 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

	SYMBOLS	HER 101	HER 102	HER 103	HER 104	HER 105	HER 106	HER 107	HER 108	UNITS		
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	300	400	600	800	1000	VOLTS		
Maximum RMS voltage	V_{RMS}	35	70	140	210	280	420	560	700	VOLTS		
Maximum DC blocking voltage	V_{DC}	50	100	200	300	400	600	800	1000	VOLTS		
Maximum average forward rectified current at $T_A=55^\circ C$	$I_{(AV)}$	1.0						Amp				
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	30.0						Amps				
Maximum instantaneous forward voltage at 1.0A	V_F	1.0		1.3		1.7		Volts				
Maximum DC reverse current $T_A=25^\circ C$ at rated DC blocking voltage $T_A=100^\circ C$	I_R	5.0 100						uA				
Maximum reverse recovery time (NOTE 1)	t_{rr}	50				70				ns		
Typical thermal resistance	R_{qJA}	65.0						°C/W				
Operating junction temperature range	T_J	-55 to +125						°C				
Storage temperature range	T_{STG}	-55 to +150						°C				

Note: 1. Reverse recovery condition $I_F=0.5A$, $I_R=1.0A$, $I_{rr}=0.25A$

RATINGS AND CHARACTERISTIC CURVES

