

High Efficiency Rectifier Glass Passivation Junction

 Lead(Pb)-Free

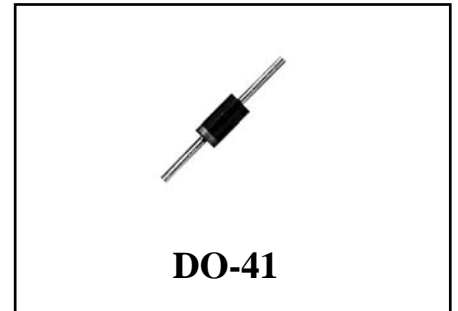
Features:

- *Low forward voltage drop
- *High current capability
- *High reliability
- *High surge current capability

Mechanical Data:

- * Case: Molded plastic
- *Epoxy: UL 94V-0 rate flame retardant
- *Lead: Axial leads, solderable per MIL-STD-202, method 208 guranteed
- *Polarity: Color band denotes cathode en
- *Mounting position: Any
- *Weight: 0.34grams

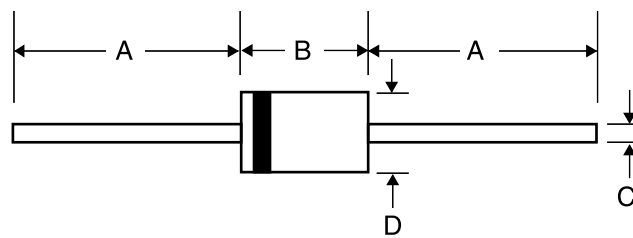
REVERSE VOLTAGE
50-1000 VOLTS
FORWARD CURRENT
1.0 AMPERE



DO-41 Outline Dimensions

Unit:mm

Axial Device (Through-Hole)



Dim	A		B		C		D	
	Min	Max	Min	Max	Min	Max	Min	Max
DO-41	25.40	-	4.06	5.20	0.70	0.90	2.00	2.70

Maximum Rating (TA=25°C Unless Otherwise Noted)

Characteristic	Symbol	HER 101G	HER 102G	HER 103G	HER 104G	HER 105G	HER 106G	HER 107G	Units
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current	I_F	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 @1.0A	V_F	1.0		1.3		1.7		V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	$T_J=25^{\circ}C$ 5.0 $T_J=100^{\circ}C$ 100							μA
Maximum Reverse Recovery Time	T_{rr}	50				75			nS
Typical Junction Capacitance	C_J	15				10			pF
Typical Thermal Resistance	$R_{\theta JA}$	70							$^{\circ}C/W$
Operating temperature range	T_j	-55 to +150							$^{\circ}C$
Storage temperature range	T_{STG}	-55 to +150							$^{\circ}C$