

ULTRA Fast Recovery High Voltage Rectifiers

 Lead(Pb)-Free

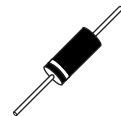
Features:

- *ULTRA Fast Recovery Time
- *UL94V-O Flame Retardant Epoxy Molding Compound
- *High Voltage (≥ 2000 V)
- *Low Leakage Current

Mechanical Data:

- *Case: Transfer Molded
- *Lead: Solderable per MIL-STD-202, Method 208
- *Polarity: Cathode Indicate by Color Band
- *Weight: 0.34 grams

**HIGH VOLTAGE
RECTIFIERS
0.2 AMPERES
2000 VOLTS**

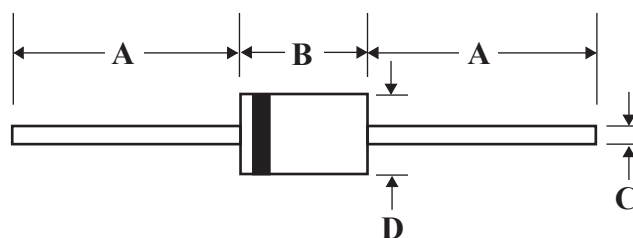


DO-41

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	5.02	0.70	0.90	2.00	2.70

Maximum Rating

Rating 25 °C Ambient Temperature Unless Otherwise Specified Single Phase Half Wave, 60Hz, Resistive or Inductive Load for Capacitive Load, Derate Current by 20%

Characteristic	Symbol	H0220	UNIT
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	2000	V
RMS Reverse Voltage	$V_{R(RMS)}$	1400	V
Average Rectifier Forward Current ($L=10\text{mm}$, $T_A=55^\circ\text{C}$)	$I_{F(AV)}$	0.2	A
Non-Repetitive Peak Square Current Surge Applied at Rated Load Condition Halfwave, Single Phase, 60Hz (JEDEC Method)	I_{FSM}	25	A
Storage Temperature Range	T_{STG}	-65 to +150	°C
Operating Temperature Rang	T_j	-65 to +125	°C

Electrical Characteristic (TA=25 °C Unless Otherwise Noted)

Characteristic	Symbol	MAX	UNIT
Maximum Instanatneous Forward Voltage ($I_F=0.2\text{ Amp}$)	V_F	7.0	V
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_c=25^\circ\text{C}$)	I_R	5.0	μA
Typical Reverse Recovery Time	T_{rr}	75	nS
Typical Junction Capacitance ($V_R=4.0\text{V}$, $f=1.0\text{MHz}$)	C_J	150	P_F

