

Fast Recover High Voltage Glass-Passivated Rectifiers

Features:

- *Low Forward Voltage
- *Low Switching Noise
- *High Surge Capacity
- *Cavity Free Glass Passivated
- *Plastic Package Has Flammability Classification UL 94V-0
- *Low Power Loss & High Efficiency

Mechanical Data:

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

**HIGH VOLTAGE
RECTIFIERS
0.5 AMPERES
2000 VOLTS**

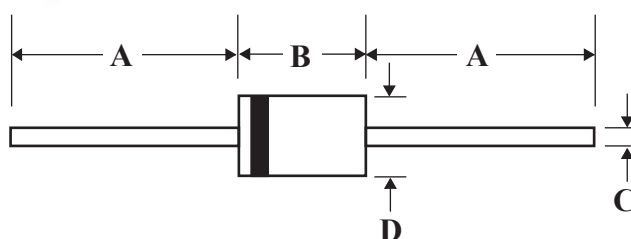


DO-41

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

H0520
Maximum Rating (TA=25°C Unless Otherwise Noted)

Characteristic	Symbol	H0520	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=9.5mm, TA=55°C)	$I_{F(AV)}$	0.5	A
Non-Repetitive Peak Square Current Surge Applied at Rated Load Condition Half Wave, Single Phase, 60Hz (JEDEC Method)	I_{FSM}	20	A
Operating Junction and Storage Temperature Range	T_j, T_{STG}	-65 to +175	°C

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

Characteristic	Symbol	MAX	UNIT
Maximum Instantaneous Forward Voltage ($I_F=0.1$ Amp)	V_F	1.8	V
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_c=25^\circ\text{C}$) (Rated DC Voltage, $T_c=125^\circ\text{C}$)	I_R	5.0 5.0	μA
Typical Reverse Recovery Time	T_{rr}	300	nS
Typical Junction Capacitance ($V_R=4.0\text{V}$, $f=1.0\text{MHz}$)	C_J	5.0	P_F

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Ratings and Characteristics Curves

FIG 1, FORWARD CURRENT DERATING CURVE

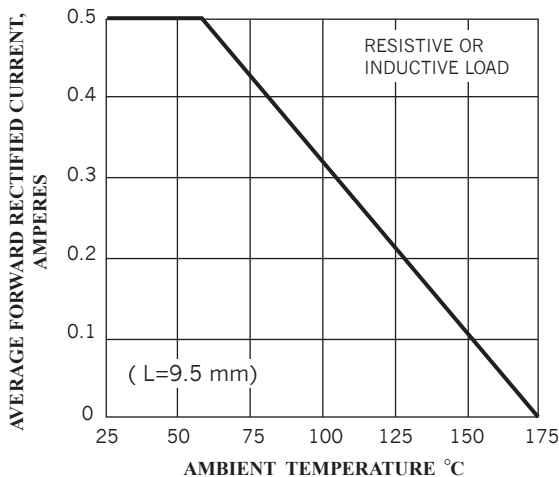


FIG 2, TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

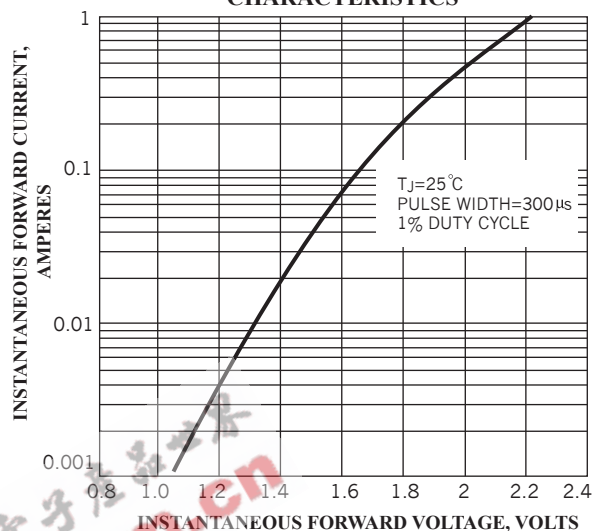


FIG 3, TYPICAL JUNCTION CAPACITANCE

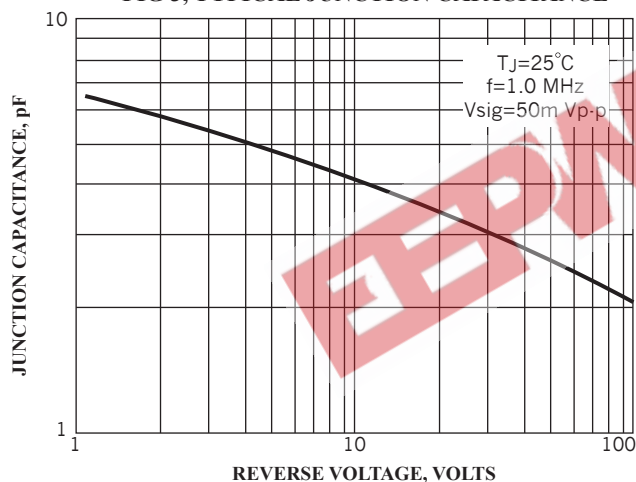


FIG 4, MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

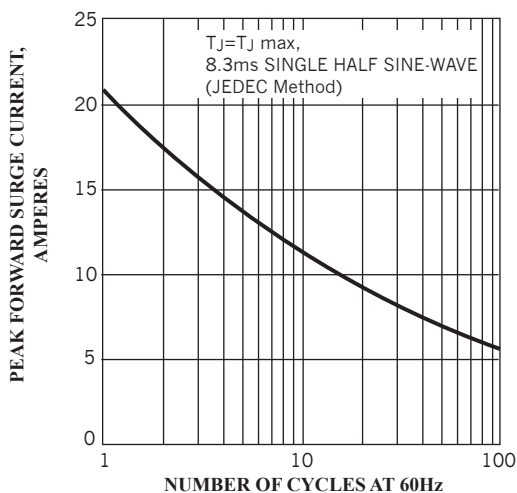


FIG 5, TYPICAL REVERSE CHARACTERISTICS

