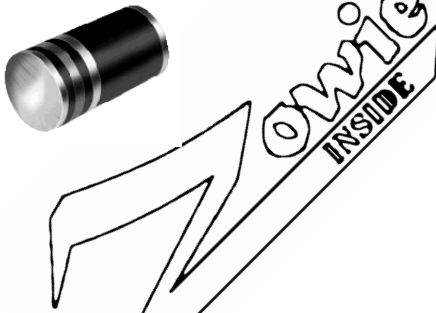




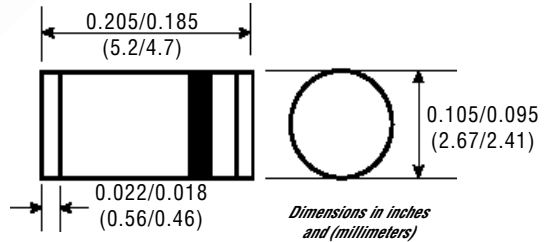
1.0 Amp Glass Passivated Sintered Fast Switching Rectifiers

RGLZ41A . . . 41M Series

Description



Mechanical Dimensions



Features

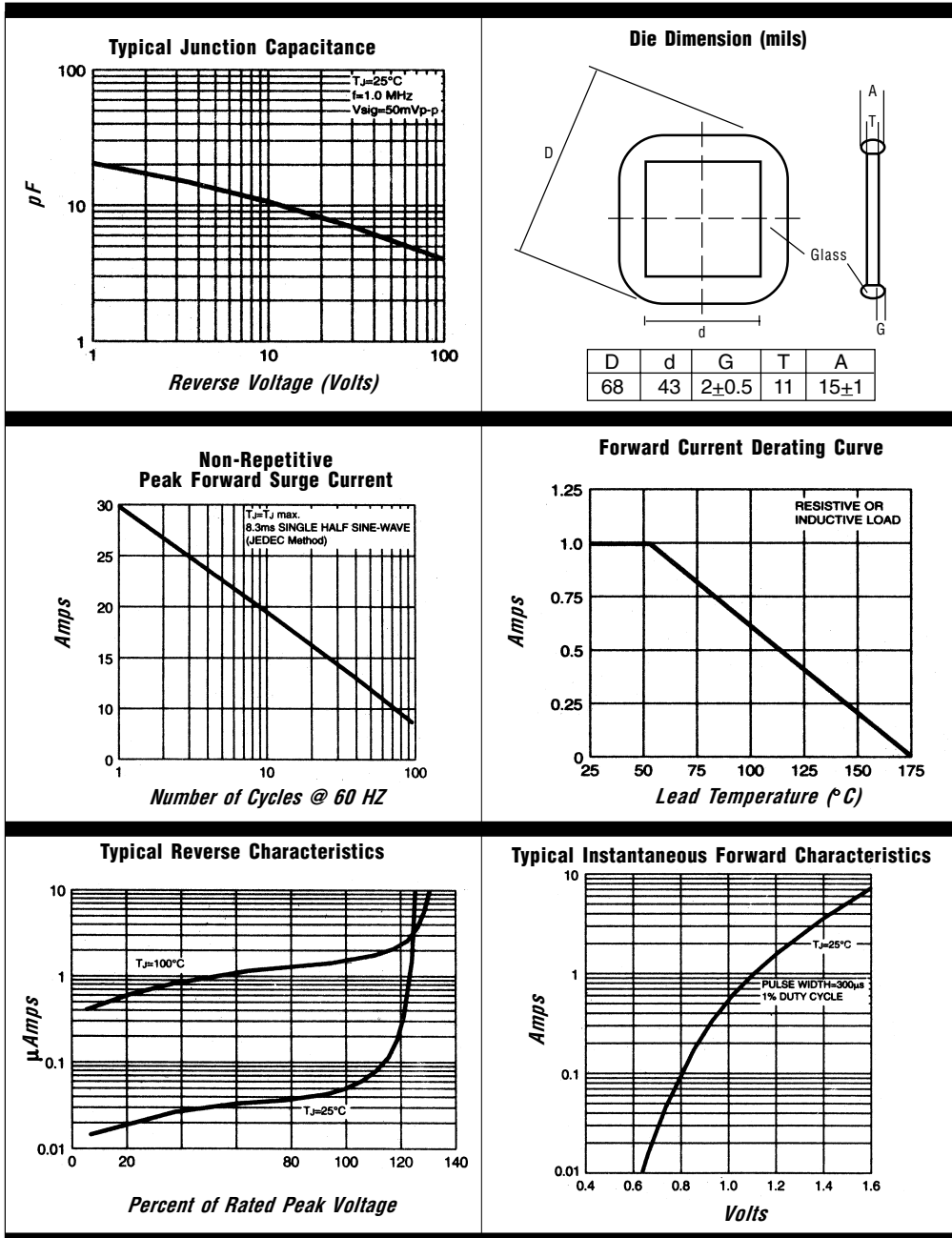
- **LOWEST COST FOR GLASS SINTERED FAST SWITCHING CONSTRUCTION**
- **LOWEST V_F FOR GLASS SINTERED FAST SWITCHING CONSTRUCTION**
- **TYPICAL $I_R < 100$ nAmps**
- **1.0 AMP OPERATION @ $T_A = 55^\circ\text{C}$, WITH NO THERMAL RUNAWAY**
- **SINTERED GLASS CAVITY-FREE JUNCTION**

Electrical Characteristics @ 25°C.	RGLZ41A . . . 41M Series							Units
Maximum Ratings	41A	41B	41D	41G	41J	41K	41M	
Peak Repetitive Reverse Voltage... V_{RRM}	50	100	200	400	600	800	1000	Volts
RMS Reverse Voltage... $V_{R(rms)}$	35	70	140	280	420	560	700	Volts
DC Blocking Voltage... V_{DC}	50	100	200	400	600	800	1000	Volts
Average Forward Rectified Current... $I_{F(av)}$ Current 3/8" Lead Length @ $T_A = 55^\circ\text{C}$				1.0				Amps
Non-Repetitive Peak Forward Surge Current... I_{FSM} ½ Sine Wave Superimposed on Rated Load				30				Amps
Forward Voltage @ 1.0A... V_F				1.2				Volts
Full Load Reverse Current... $I_R(av)$ Full Cycle Average @ $T_A = 55^\circ\text{C}$				50				µAmps
DC Reverse Current... I_R @ Rated DC Blocking Voltage				5.0				µAmps
				$T_A = 125^\circ\text{C}$				µAmps
Typical Junction Capacitance... C_j (Note 1)				8.0				pF
Maximum Thermal Resistance... $R_{\theta JC}$ (Note 2)				75				°C/W
Maximum Reverse Recovery Time... t_{RR} (Note 3)	< 150 >			250	< 500 >			ns
Operating & Storage Temperature Range... T_J, T_{STRG}	-65 to 175							°C
Polarity Color Band (2nd Band)	Gray	Red	Orange	Yellow	Green	Blue	Violet	



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RGLZ41A ... 41M Series



- NOTES:**
1. Measured @ 1 MHz and applied reverse voltage of 4.0V.
 2. Thermal Resistance from Junction to Ambient, 6.0mm² copper pad to each terminal.
 3. Reverse Recovery Condition $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$.

Ratings at 25 Deg. C ambient temperature unless otherwise specified.

Single Phase Half Wave, 60 HZ Resistive or Inductive Load.

For Capacitive Load, Derate Current by 20%.