

T-01-17

MICRO
QUALITY
SEMICONDUCTOR, INC.

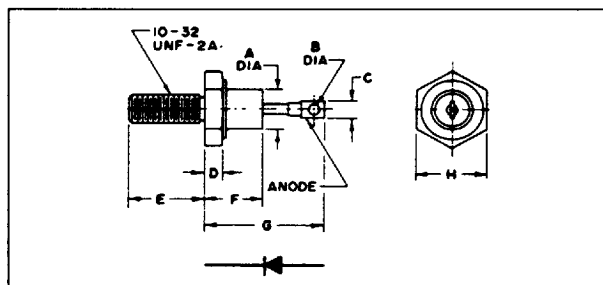
Medium Current Silicon Rectifiers**GS4 Series**50-600V V_{RRM} Ratings

Glass Passivated

High Surge Current

Standard D0203AA Case
(Formerly D04)

LTR.	INCHES	MILLIMETERS
A	.265-.424	6.74-10.76
B	.060-.095	1.53-2.41
C	.250 MAX.	6.35 MAX.
D	.075-.175	1.91-4.44
E	.422-.453	10.72-11.5
F	.405 MAX.	10.28 MAX.
G	.800 MAX.	20.32 MAX.
H	.423-.438	10.75-11.12

**MAXIMUM RATINGS** (at 25°C unless otherwise noted)

RATINGS	SYMBOL	GS405	GS41	GS42	GS44	GS46	UNITS
DC Blocking Voltage	V_{RRM}	50	100	200	400	600	V
Working Peak Reverse Voltage	V_{RRM}						
Peak Repetitive Reverse Voltage	V_{RRM}						
RMS Reverse Voltage	V_{RRM}	35	70	140	280	420	V
Average Rectified Forward Current @ $T_C = 100^\circ\text{C}$	I_o	12					A
Peak Surge Current (Non-Rep) 1/2 cycle, 60 Hz	I_{FSM}	250					A
Operating and Storage Temperature Range	T_J, T_{STG}	-65 to +150					°C

ELECTRICAL CHARACTERISTICS (at 25°C unless otherwise noted)

CHARACTERISTICS	SYMBOL	UNITS
Maximum Instantaneous Forward at $I_F = 40\text{A}$	V_{FM}	1.8 V
Maximum Reverse Current at Rated V $T_J = 25^\circ\text{C}$ $T_J = 150^\circ\text{C}$	I_{RM} I_{RM}	10 10 μA mA
Maximum Thermal Resistance, Junction to Case	$R_{\theta JC}$	2.0 °C/W

Note: Normal polarity is cathode-to-case. For anode-to-case, add suffix A to part number.

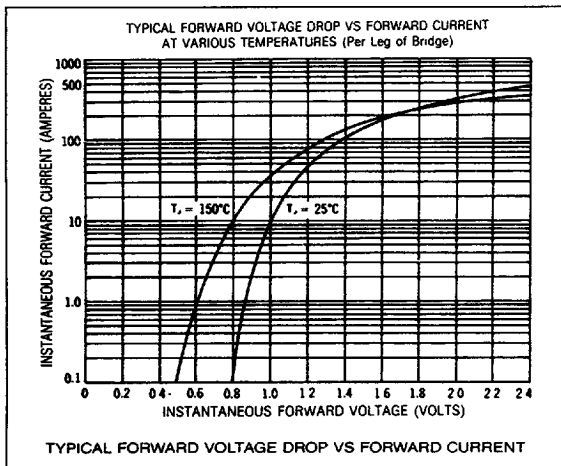


FIGURE 1

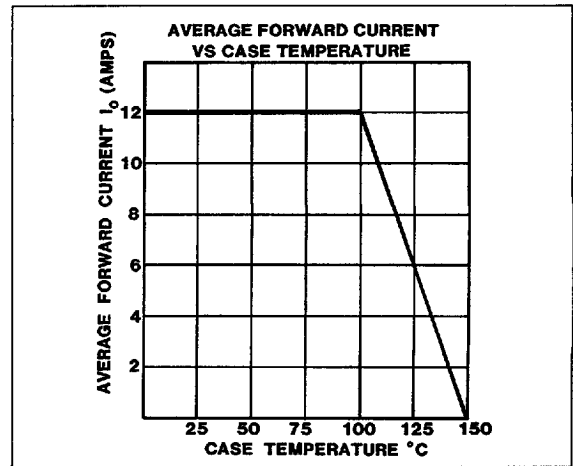


FIGURE 2

T-01-17