Micro Commercial Components
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GP02-35 THRU GP02-60

0.2 Amp High Voltage Silicon Rectifier 3500 - 6000 Volts

Features

- AVALANCHE OPERATION
- UL 94V0 FLAME RETARDANT EPOXY MOLDING COMPOND
- BEVELED ROUND CHIP
- LOW COST

Maximum Ratings

- Operating Junction Temperature -55 °C to +125 °C
- Storage Temperature: - 55°C to +150°C
- Maximum Thermal Resistance: 50°C/W Junction To Ambinet (NOTE1)

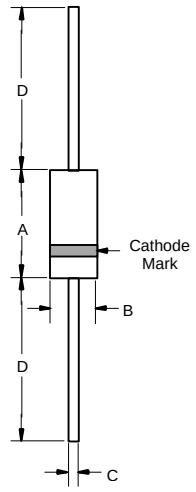
Microsemi Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GP02-35	GP02-35	3500V	2450V	3500V
GP02-40	GP02-40	4000V	2800V	4000V
GP02-50	GP02-50	5000V	3500V	5000V
GP02-60	GP02-60	6000V	4200V	6000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	0.2A	T_A = 55 °C
Peak Forward Surge Current GP02-35~40 GP02-50~60	I_{FSM}	25 A 20 A	8.3ms, half sine
Maximum Instantaneous Forward Voltage GP02-35~40 GP02-50~60	V_F	5.0 V 7.0 V	I_{FM} = 0.2A; T_J = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5.0 µA 50 µA	T_A = 25°C T_A = 100°C
Typical Junction Capacitance GP02-35~40 GP02-50~60	C_J	7 pF 5 pF	Measured at 1.0MHz, V_R=4.0V

NOTE: 1. BOTH LEADS ATTATCHED TO HEATSINK 20* 20* 1t(mm)
COPPER PLATE AT LEAD LENTH 5mm

DO-15



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	.230	.300	5.80	7.60	
B	.104	.140	2.60	3.60	
C	.026	.034	.70	.90	
D	1.000	---	25.40	---	

FIG. 1 MAXIMUM CURRENT RATING EFFECT OF COPPER AREA. RESISTIVE/INDUCTIVE LOAD

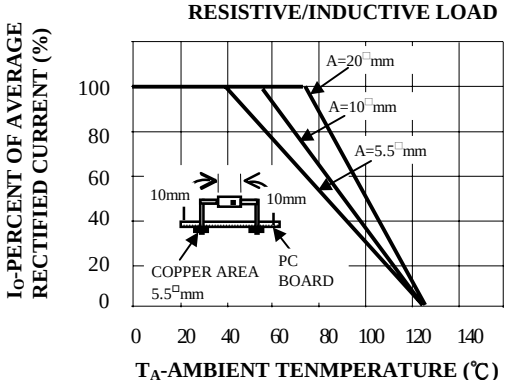


FIG. 2 MAXIMUM CURRENT RATING CAPACITIVE LOAD, 10mm LEAD LENGTHS

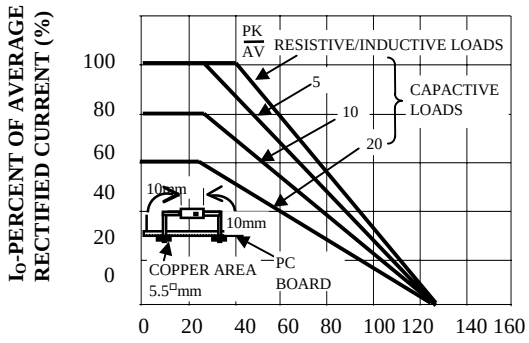
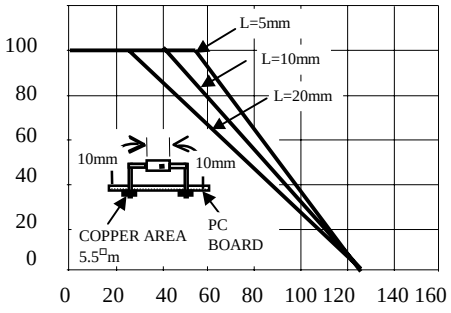
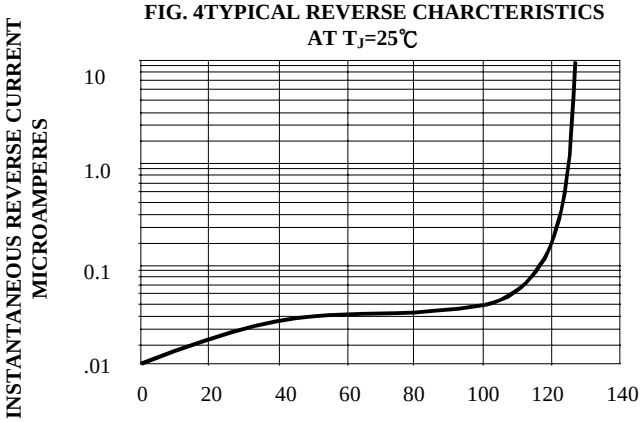


FIG. 3 MAXIMUM CURRENT RATING EFFECT OF COPPER AREA. RESISTIVE/INDUCTIVE LOAD



T -AMBIENT TENMPERATURE

FIG. 4TYPICAL REVERSE CHARCTERISTICS AT T_J=25℃



PERCENT OF RATED PEAK REVERSE VOLTAGE

FIG. 5 MAXIMUM FORWARD SURGE VS NUMBER OF CYCLES

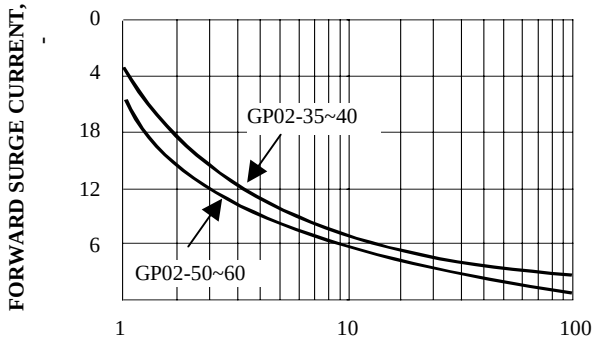


FIG. 6 TYPICAL JUNCTION CAPACITANCE

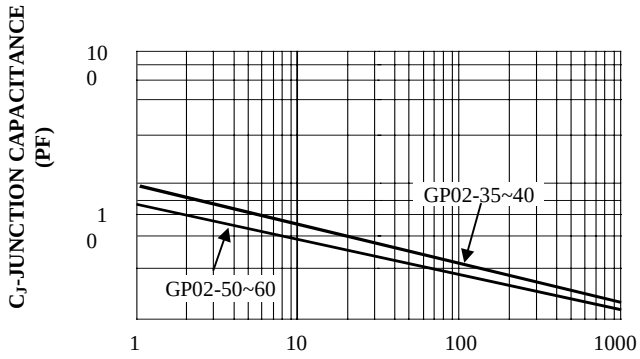


FIG. 7 TYPICAL FORWARD CHARACTERISTICS