



Micro Commercial Components
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FRA254GP

**25.0 Amp
GLASS PASSIVATED
BUTTON DIODE
400 Volts**

Features

- Plastic Material Used Carriers Underwrites Laboratory Classification 94V-O
- Low Cost Construction Utilizing Void-free Molded Plastic Technique
- High Surge Capability
- Diffused Junction

Maximum Ratings

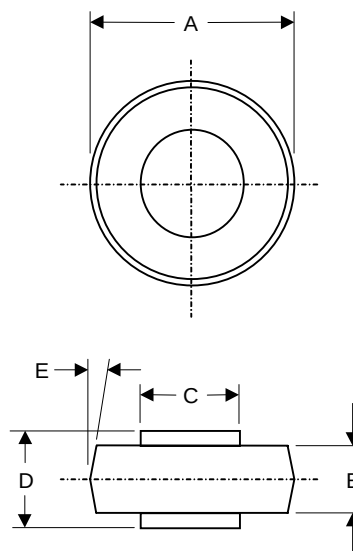
- Operating & Storage Temperature: -50°C to +175°C
- For Capacitive Load, Derate Current by 20%

MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
FRA254GP	400V	280V	400V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	25.0A	$T_C=150^{\circ}\text{C}$
Peak Forward Surge Current	I_{FSM}	400A	8.3ms half sine
Maximum Instantaneous Forward Voltage	V_F	1.3V	$I_{FM}=25.0\text{A}$ $T_A=25^{\circ}\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5.0uA	$T_C=25^{\circ}\text{C}$
Typical Reverse Recovery Times	t_{rr}	250ns	$I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $I_{rr}=0.25\text{A}$

SRA



DIMENSION					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.327	.347	8.30	8.90	
B	.165	.185	4.20	4.70	
C	.218	.222	5.54	5.64	
D	.234	.246	5.94	6.25	
E	-----	5°	-----	5°	NOM

FRA254GP

RATINGS AND CHARACTERISTIC CURVES

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

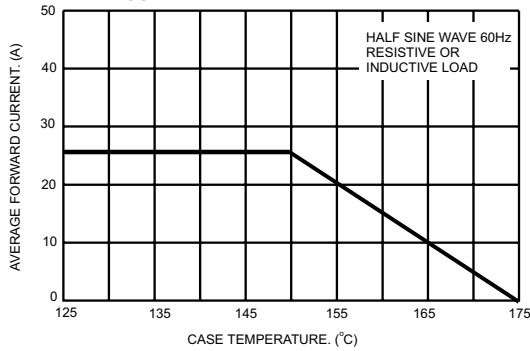


FIG.2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

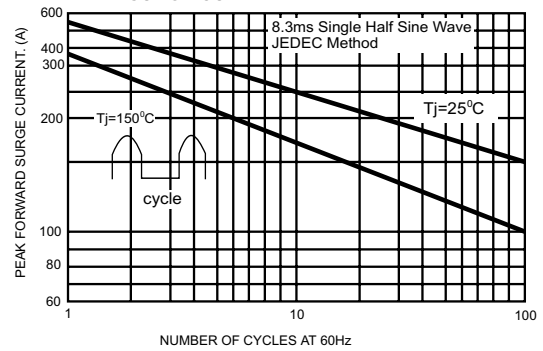


FIG.3- TYPICAL FORWARD CHARACTERISTICS

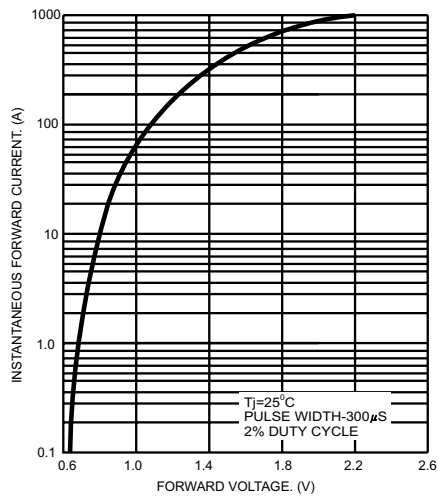


FIG.4- TYPICAL REVERSE CHARACTERISTICS

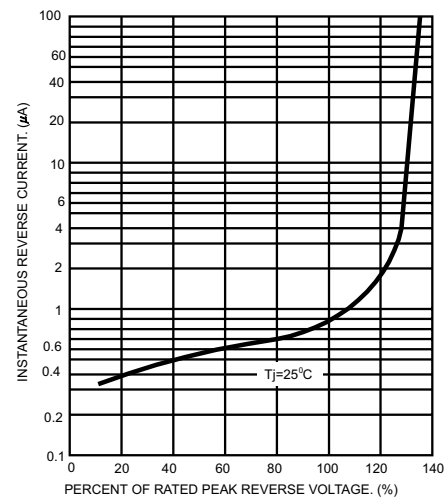


FIG.5- TYPICAL JUNCTION CAPACITANCE

