

FS2J-LTP Datasheet



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DiGi Electronics Part Number	FS2J-LTP-DG
Manufacturer	Micro Commercial Co
Manufacturer Product Number	FS2J-LTP
Description	DIODE GEN PURP 600V 2A DO214AC
Detailed Description	Diode 600 V 2A Surface Mount DO-214AC (SMA)

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Purchase and inquiry

Manufacturer Product Number:

FS2J-LTP

Series:

-

Technology:

Standard

Current - Average Rectified (Io):

2A

Reverse Recovery Time (trr):

250 ns

Capacitance @ Vr, F:

50pF @ 4V, 1MHz

Package / Case:

DO-214AC, SMA

Operating Temperature - Junction:

-50°C ~ 150°C

Manufacturer:

Micro Commercial Co

Product Status:

Active

Voltage - DC Reverse (Vr) (Max):

600 V

Speed:

Fast Recovery $\leq 500\text{ns}$, $> 200\text{mA}$ (Io)

Current - Reverse Leakage @ Vr:

5 μA @ 600 V

Mounting Type:

Surface Mount

Supplier Device Package:

DO-214AC (SMA)

Base Product Number:

FS2J

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8541.10.0080

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99

Features

- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant(Note 2)("P" Suffix Designates Compliant. See Ordering Information)

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Maximum Thermal Resistance: 18°C/W Junction to Lead
- Maximum Thermal Resistance: 55°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
FS2A-L	FS2A	50V	35V	50V
FS2B-L	FS2B	100V	70V	100V
FS2D-L	FS2D	200V	140V	200V
FS2G-L	FS2G	400V	280V	400V
FS2J-L	FS2J	600V	420V	600V
FS2K-L	FS2K	800V	560V	800V
FS2M-L	FS2M	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	2.0A	$T_L=100^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	50A	8.3ms, Half Sine
Maximum Instantaneous Forward Voltage	V_F	1.30V	$I_{FM}=2.0A;$ $T_J=25^\circ\text{C}^*$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5.0 μ A	$T_J=25^\circ\text{C};$
Maximum Reverse Recovery Time	t_{rr}	150ns 250ns 500ns	$I_F=0.5A; I_R=1.0A;$ $I_{rr}=0.25A$
Typical Junction Capacitance	C_J	50pF	Measured at 1.0MHz $V_R=4.0V$

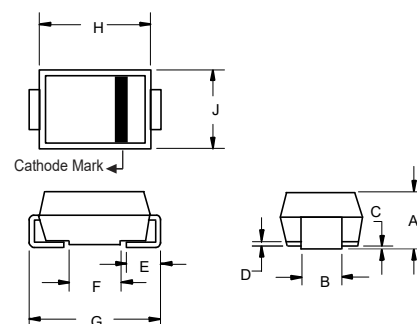
*Pulse Test: Pulse Width 300 μ sec, Duty Cycle 2%

Note:

1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
2. High Temperature Solder Exemptions Applied, See EU Directive Annex 7a.

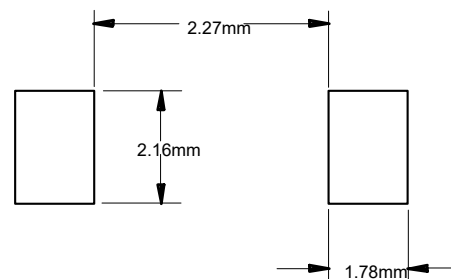
2.0 Amp Fast Recovery Rectifier 50 to 1000 Volts

DO-214AC (SMA) (LEAD FRAME)



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.075	0.096	1.90	2.44	
B	0.050	0.064	1.27	1.63	
C	0.002	0.008	0.051	0.203	
D	---	0.020	---	0.51	
E	0.030	0.060	0.76	1.52	
F	0.065	0.091	1.65	2.32	
G	0.189	0.220	4.80	5.59	
H	0.157	0.187	4.00	4.75	
J	0.090	0.115	2.25	2.92	

SUGGESTED SOLDER PAD LAYOUT



Curve Characteristics

Fig. 1 - Forward Current Derating Curve

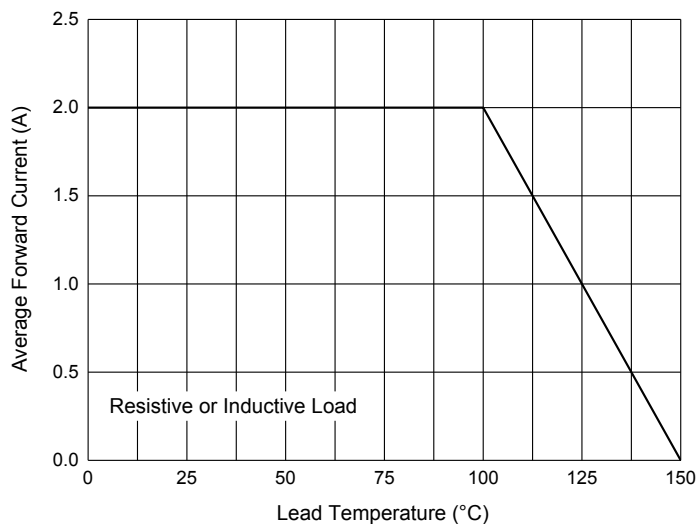


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

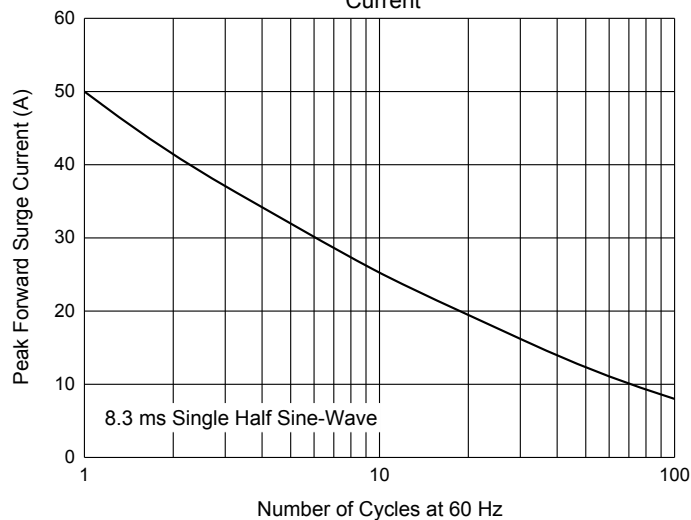


Fig. 3 - Typical Instantaneous Forward Characteristics

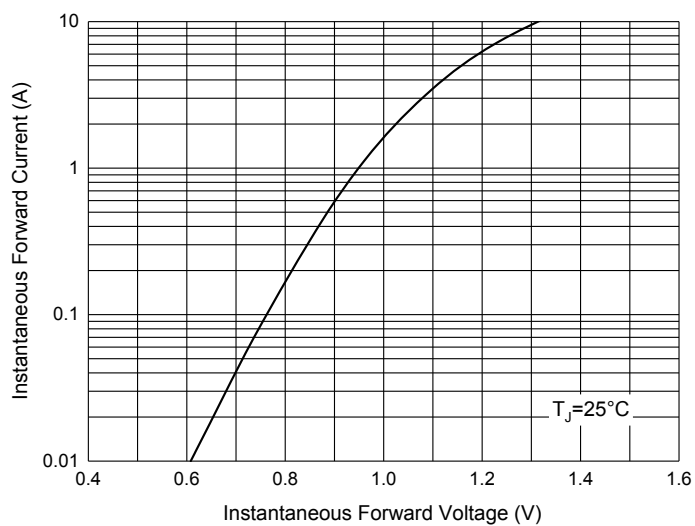
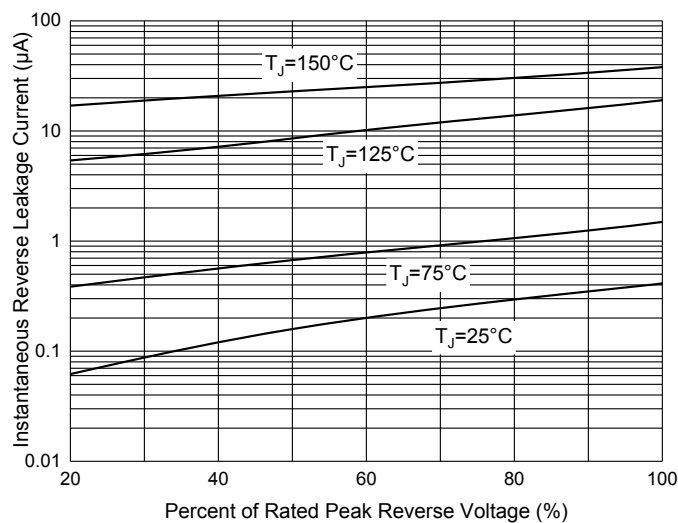


Fig. 4 - Typical Reverse Characteristics



Ordering Information

Device	Packing
FS2A-LTP~FS2M-LTP	Tape&Reel: 5Kpcs/Reel

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