GSDSKFM1020D Series

Surface Mount Schottky Barrier Rectifiers

Product Description

Reverse Voltage 20V To 200V Forward Current 10A

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O Utilizing Flame Retardant Epoxy Molding Compound
- For surface mounted applications
- Exceeds environmental standards of MIL-S-19500 / 228
- Low leakage current
- Lead(Pb)-Free

Mechanical Data

- Case : Molded plastic, TO-252 / DPAK
- Terminals : Solder plated, solder able per MIL-STD-750, Method 2026
- Polarity : Indicated by marking
- Mounting Position : Any
- Weight : 0.34 grams

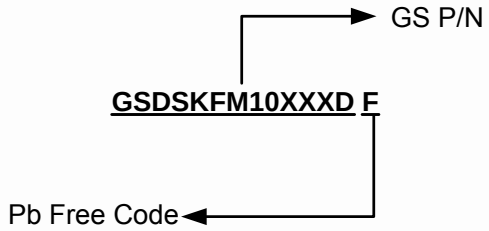
Packages

D-PAK (TO-252)

Marking Information

Part Number	Package	Marking
GSDSKFM1020DF	D-PAK (TO-252)	SK1020
GSDSKFM1030DF	D-PAK (TO-252)	SK1030
GSDSKFM1040DF	D-PAK (TO-252)	SK1040
GSDSKFM1050DF	D-PAK (TO-252)	SK1050
GSDSKFM1060DF	D-PAK (TO-252)	SK1060
GSDSKFM1080DF	D-PAK (TO-252)	SK1080
GSDSKFM10100DF	D-PAK (TO-252)	SK10100
GSDSKFM10150DF	D-PAK (TO-252)	SK10150
GSDSKFM10200DF	D-PAK (TO-252)	SK10200

Ordering Information



Part Number	Package	Quantity
GSDSKFM1020DF Series	D-PAK (TO-252)	2500 PCS

Electrical Characteristics

(T_A=25°C unless otherwise noted)

Symbol	Conditions		1020	1030	1040	1050	1060	Unit
V_{RRM}	Repetitive Peak Reverse Voltage		20	30	40	50	60	V
V_{RMS}	Maximum RMS Voltage		14	21	28	35	42	V
V_R	Continuous Reverse Voltage		20	30	40	50	60	V
V_F	Maximum Forward Voltage @ I_F=5.0A		0.55			0.75		V
Symbol	**Conditions**		**1080**	**10100**		**10150**	**10200**	**Unit**
V_{RRM}	Repetitive Peak Reverse Voltage		80	100		150	200	V
V_{RMS}	Maximum RMS Voltage		56	70		105	140	V
V_R	Continuous Reverse Voltage		80	100		150	200	V
V_F	Maximum Forward Voltage @ I_F=5.0A		0.85			1.0		V
I_R	Maximum DC Reverse Current At Rated DC Blocking Voltage	T_A=25°C	0.5					mA
		T_A=100°C	20					
$I_{F(AV)}$	Forward Rectified Current (Fig.1)		10					A
I_{FSM}	Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load		100					A
$R_{\Theta JA}$	Thermal Resistance Junction to Ambient		80					°C/W
$R_{\Theta JC}$	Thermal Resistance Junction to case		3.0					°C/W
T_J	Junction Temperature Range		-55 to +125					°C
T_{STG}	Storage Temperature Range		-55 to +150					°C

Typical Characteristics

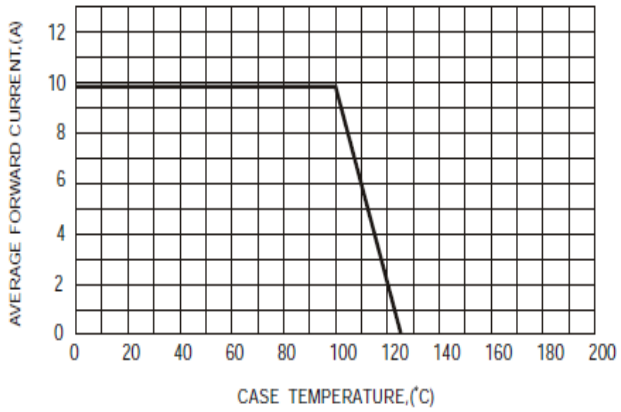


FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

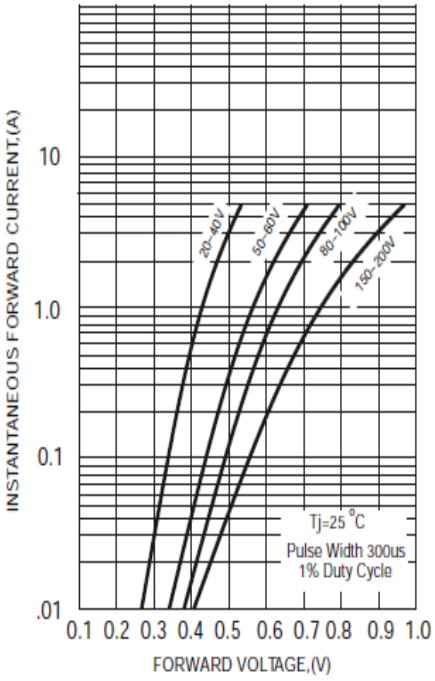


FIG.2-TYPICAL FORWARD CHARACTERISTICS

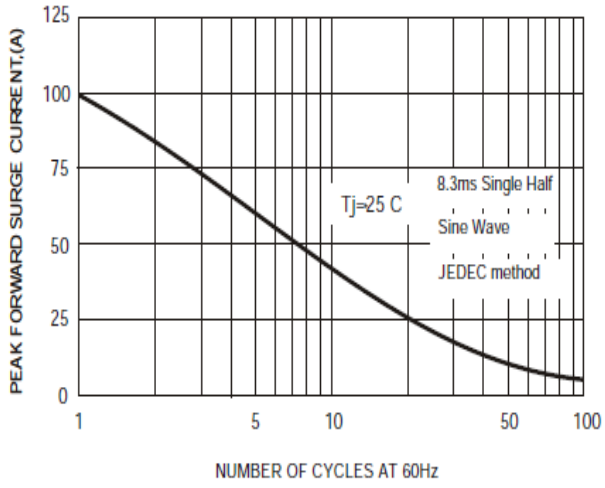
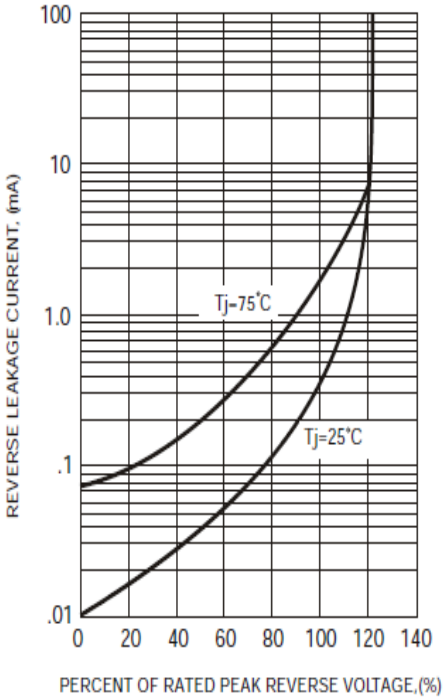
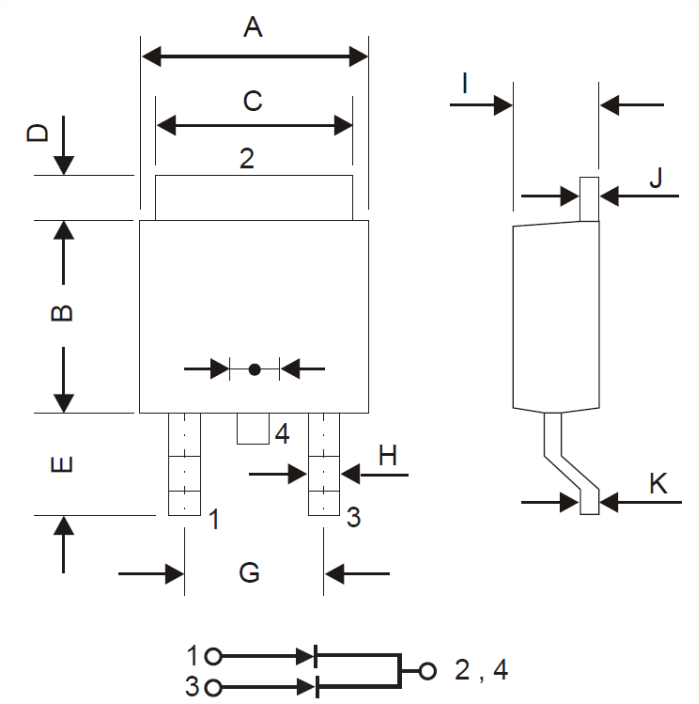


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



Package Dimension

D-PAK (TO-252)



Dimensions				
Symbol	Millimeters		Inches	
	Min	Max	Min	Max
A	6.30	6.70	0.248	0.263
B	5.80	6.20	0.228	0.244
C	5.10	5.50	0.200	0.216
D	0.80	1.00	0.033	0.039
E	2.50	2.90	0.098	0.114
G	4.30	4.70	0.169	0.185
H	0.08	1.00	0.003	0.039
I	2.10	2.50	0.082	0.098
J	0.40	0.60	0.015	0.023
K	0.40	0.60	0.015	0.023

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CONTACT US

GS Headquarter	
	4F.,No.43-1,Lane11,Sec.6,Minquan E.Rd Neihu District Taipei City 114, Taiwan (R.O.C)
	886-2-2657-9980
	886-2-2657-3630
	sales_twn@gs-power.com

Wu-Xi Branch	
	No.21 Changjiang Rd., WND, Wuxi, Jiangsu, China (INFO. &. TECH. Science Park Building A 210 Room)
	86-510-85217051
	86-510-85211238
	sales_cn@gs-power.com

RD Division	
	824 Bolton Drive Milpitas. CA. 95035
	1-408-457-0587