

勝特力材料 886-3-5753170 胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw

# **RGF1A - RGF1M** WWW.100Y.COM

### Features

- · Glass passivated junction.
- For surface mounted application.
- Low forward voltage drop.
- High current capability.
- Easy pick and place.
- High surge current capability.

SMA/DO-214AC COLOR BAND DENOTES CATHODE

# **Fast Rectifiers**

## Absolute Maximum Ratings\* T<sub>A</sub> = 25°C unless otherwise noted

			1		14				
Symbol	Parameter		Value				Units		
			1B	1D	1G	1J	1K	1M	W.
V <sub>RRM</sub>	Maximum Repetitive Reverse Voltage	50	100	200	400	600	800	1000	V
I <sub>F(AV)</sub>	Average Rectified Forward Current, @ $T_L = 125^{\circ}C$	04.6		NT.	1.0	MN		00Y.C	A
I <sub>FSM</sub>	Non-repetitive Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave	2001	.00'	M.TV	30	A M	WW	100X.	CAN
T <sub>stg</sub>	Storage Temperature Range	.70-	J C	DIAT.	-65 to +'	175	WW	1.10	°C
T <sub>J</sub>	Operating Junction Temperature	V10	01.	M	-65 to +'	175		W.100	°C

\*These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

# **Thermal Characteristics**

Symbol	Parameter	Value	Units
PD	Power Dissipation	1.76	W
R <sub>eJA</sub>	Thermal Resistance, Junction to Ambient*	85	°C/W
R <sub>eJL</sub>	Thermal Resistance, Junction to Lead*	28	°C/W

#### **Electrical Characteristics** $T_A = 25^{\circ}C$ unless otherwise noted

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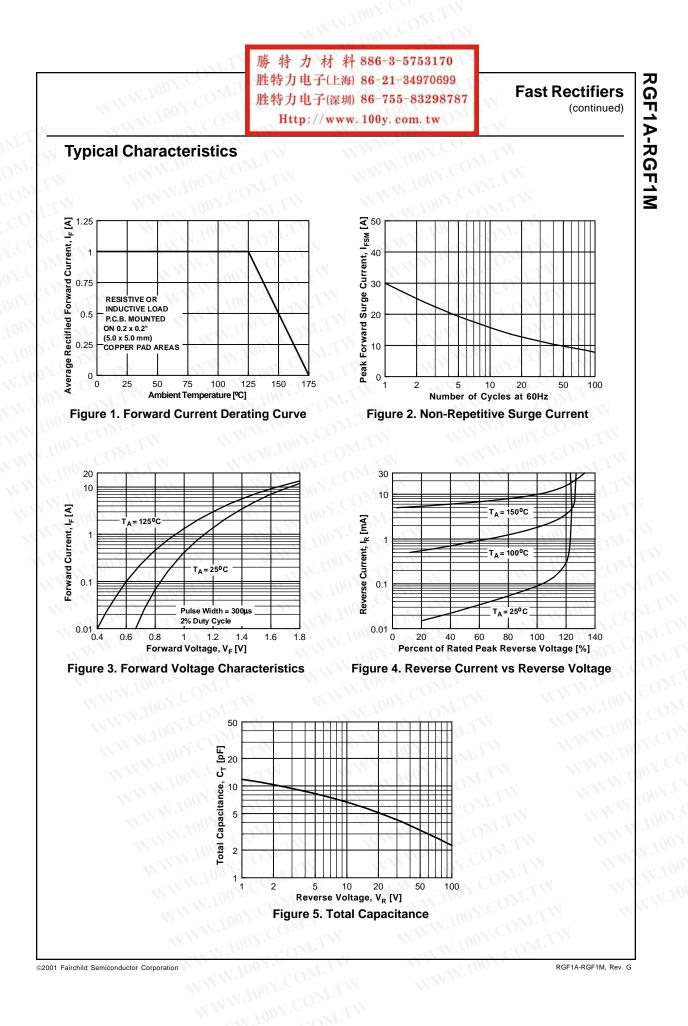
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Symbol	Parameter	Device						Units	
	WWW.IOON.COM.	1A	1B	1D	1G	1J	1K	1M	WW
V <sub>F</sub>	Forward Voltage @ 1.0 A			WIN	1.3	CON			V
t <sub>rr</sub>	Reverse Recovery Time $I_F = 0.5 \text{ A}, I_R = 1.0 \text{ A}, I_{rr} = 0.25 \text{ A}$	N	N	150	1.100,	250	50	00	ns
I <sub>R</sub>	Reverse Current @ rated V <sub>R</sub> $T_A = 25^{\circ}C$ $T_A = 125^{\circ}C$	W		WW	5.0 100	oy.C	OW1.1	W	μΑ μΑ
C <sub>T</sub>	Total Capacitance $V_{R} = 4.0 \text{ V}, \text{ f} = 1.0 \text{ MHz}$	LA	I	W	8.5	001.	COM		pF

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**RGF1A-RGF1M** 



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CROSSVOLT™	GlobalOptoisolator™	POP™	SuperSOT <sup>™</sup> -3	
DenseTrench™	GTO™	Power247™	SuperSOT <sup>™</sup> -6	
DOME™	HiSeC™	PowerTrench <sup>®</sup>	SuperSOT <sup>™</sup> -8	
EcoSPARK™	ISOPLANAR™	QFET™	SyncFET™	
E <sup>2</sup> CMOS <sup>™</sup>	LittleFET™	QS™	TinyLogic™	
EnSigna™	MicroFET™	QT Optoelectronics <sup>™</sup>	TruTranslation™	
FACT™	MicroPak™	Quiet Series™	UHC™	
FACT Quiet Series™	MICROWIRE™	SILENT SWITCHER <sup>®</sup>	UltraFET®	

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