

Kingtronics®**GS3A-GS3M**

Surface Mount General-purpose Rectifiers

Reverse Voltage 50 ~ 1000 V Forward Current 3.0 A

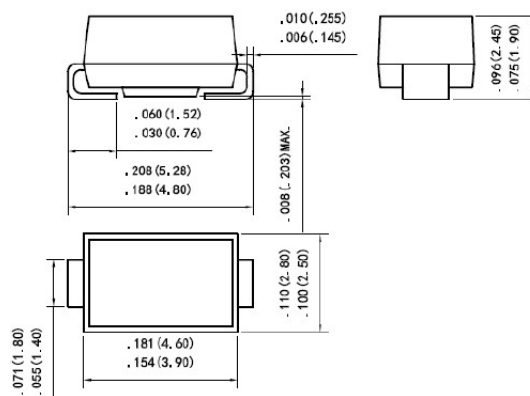
Features

- Low reverse leakage
- High forward surge capability
- High reliability
- High temperature soldering guaranteed:
260°C/10seconds
- Lead and body according with RoHS standard
- Green compound with suffix "-F" on Marking

Mechanical Characteristics

- Case: SMA Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Pure tin plated, lead free

SMA



Unit: inch (mm)

Maximum Ratings & Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	GS3A	GS3B	GS3D	GS3G	GS3J	GS3K	GS3M	UNIT
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V
Maximum average forward rectified current	IF(AV)				3.0				A
Non-repetitive peak forward surge current	IFSM				80				A
8.3 ms singlehalf sine-wave									
Maximum forward voltage	VF				1.1				V
@IF=3.0A									
Maximum reverse current	IR				5				μA
TA= 25°C									
TA= 125°C					100				
Typical thermal resistance (Note 1)	RθJA				85				°C/W
VR=4.0V,f=1MHz	CJ				40				pF
Type junction capacitance									
Operating junction and storage temperature	TJ, TSTG				-55 --- +150				°C

Note:

1) Thermal resistance from junction to ambient, PCB mounted.

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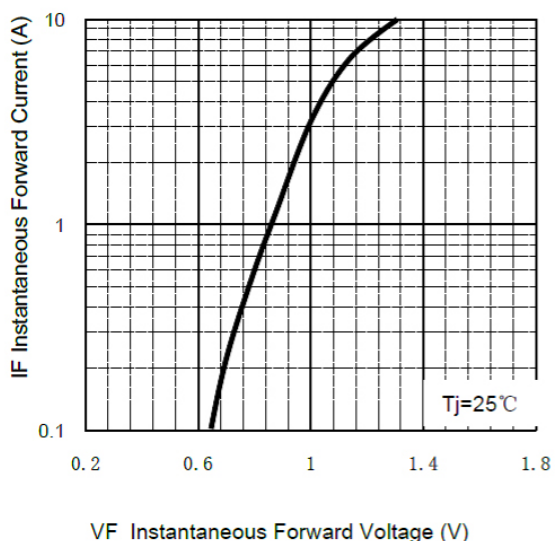
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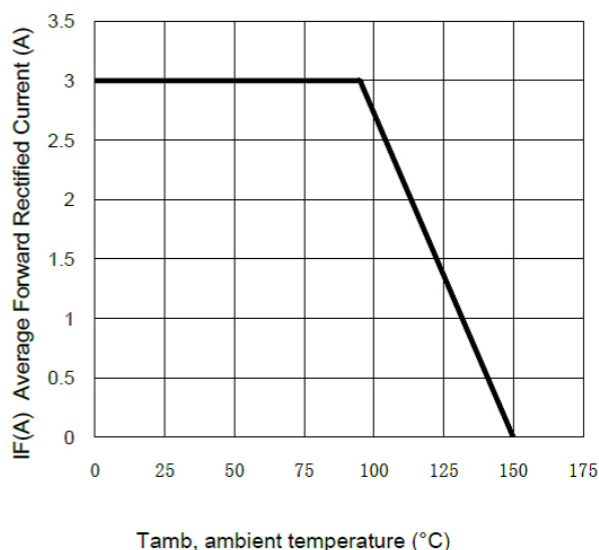
GS3A-GS3M

Characteristic Curves

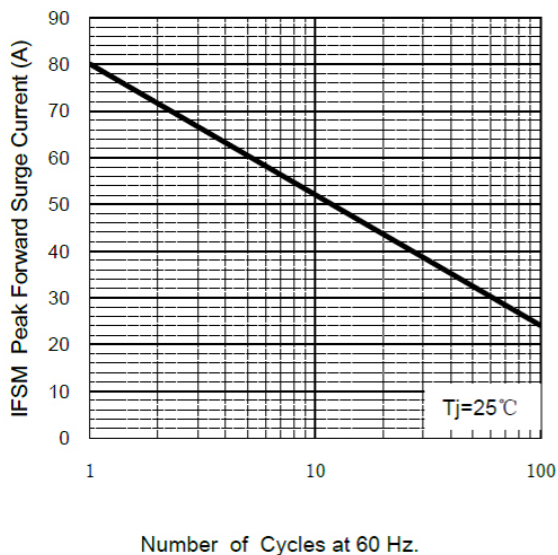
TYPICAL FORWARD CHARACTERISTIC



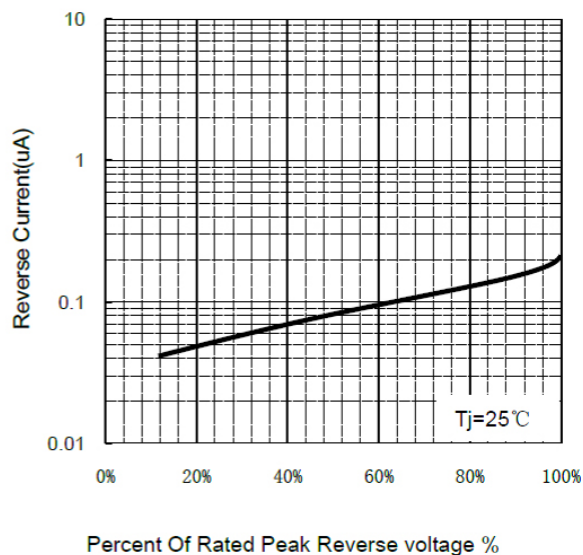
FORWARD CURRENT DERATING CURVE



MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT



Typical Reverse Characteristics



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