



FMSK1020C-D2G THRU FMSK10200C-D2G

Schottky Barrier Rectifier (Single Chip)

Reverse Voltage: 20 to 200 Volts

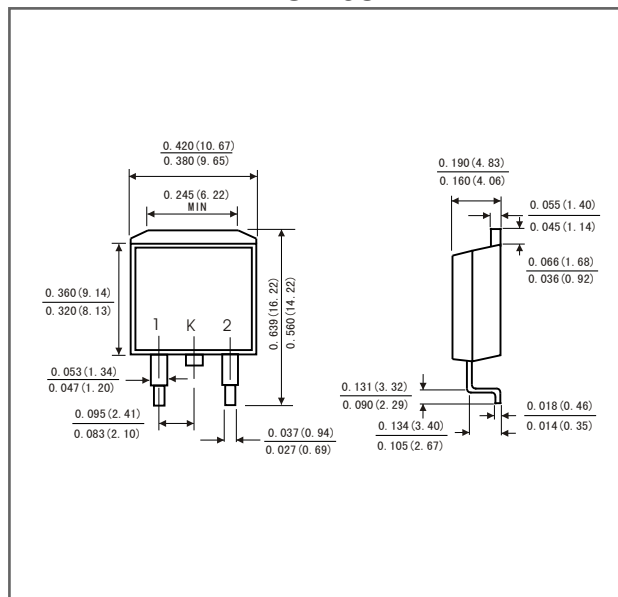
Forward Current: 10.0 Ampere

Package outline

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction, majority carrier conduction
- Guard ring for overvoltage protection
- Low power loss, high efficiency
- High current capability, Low forward voltage drop
- Single rectifier construction
- High surge capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications
- High temperature soldering guaranteed:
260°C/10 seconds, 0.25"(6.35mm) from case
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC

TO-263



Dimensions in inches and (millimeters)

Mechanical data

- Case: JEDEC TO-263 molded plastic body
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: As marked
- Mounting Position: Any
- Weight: 0.08 ounce, 2.24 gram

Maximum Ratings And Electrical Characteristics

- Ratings at 25°C ambient temperature unless otherwise specified.
- Single phase, half wave, resistive or inductive load.
- For capacitive load, derate by 20%.

Type Number		Symbols	FMSK 1020 C-D2G	FMSK 1040 C-D2G	FMSK 1045 C-D2G	FMSK 1050 C-D2G	FMSK 1060 C-D2G	FMSK 1080 C-D2G	FMSK 10100 C-D2G	FMSK 10150 C-D2G	FMSK 10200 C-D2G	Units
Maximum repetitive peak reverse voltage		VRRM	20	40	45	50	60	80	100	150	200	Volts
Maximum RMS voltage		VRMS	14	28	31.5	35	42	56	70	105	140	Volts
Maximum DC blocking voltage		VDC	20	40	45	50	60	80	100	150	200	Volts
Maximum average forward rectified current (see Fig.1)		I(AV)	10.0									Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		IFSM	150.0									Amps
Maximum instantaneous forward voltage at 10.0 A(Note 1)		VF	0.60			0.75		0.85		0.90	0.95	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	T _A =25°C	IR	0.2									mA
	T _A =125°C		15			50						
Typical thermal resistance (Note 2)		RθJC	2.5									°C/W
Operating junction temperature range		TJ	-65 to +150									°C
Storage temperature range		TSTG	-65 to +150									°C

Notes: 1.Pulse test: 300 μ s pulse width,1% duty cycle

2.Thermal resistance from junction to case

Rating and characteristic curves

FIG.1-FORWARD CURRENT DERATING CURVE

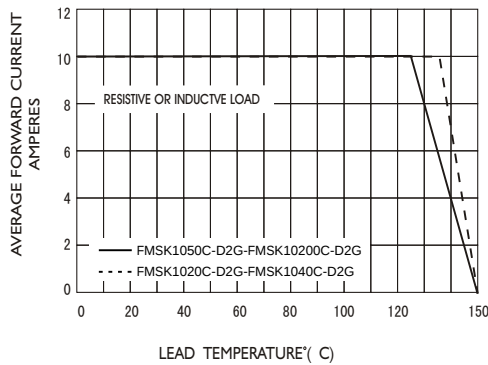


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

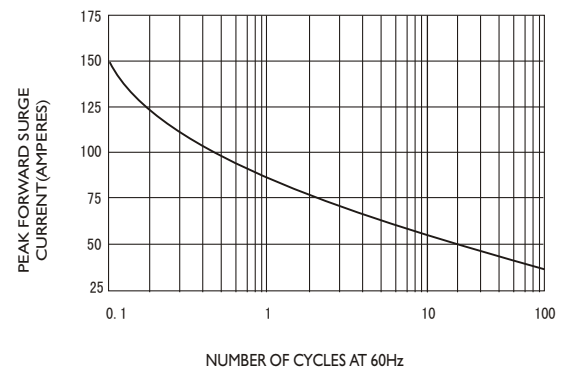


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

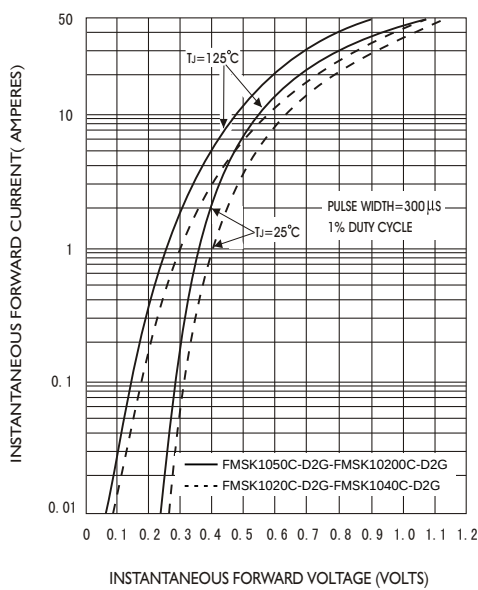


FIG.4-TYPICAL REVERSE CHARACTERISTICS

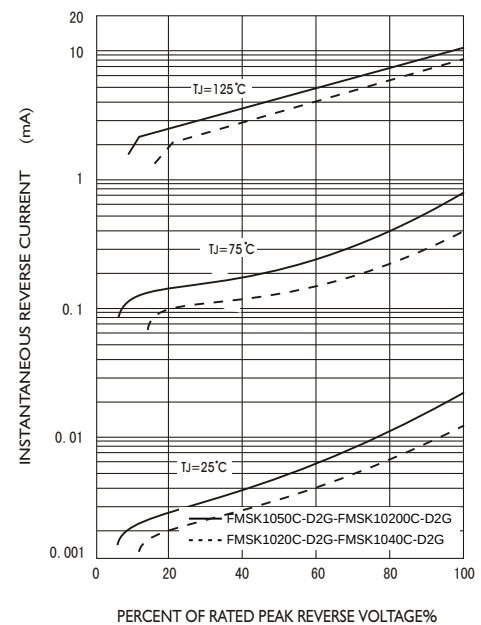


FIG.5-TYPICAL JUNCTION CAPACITANCE

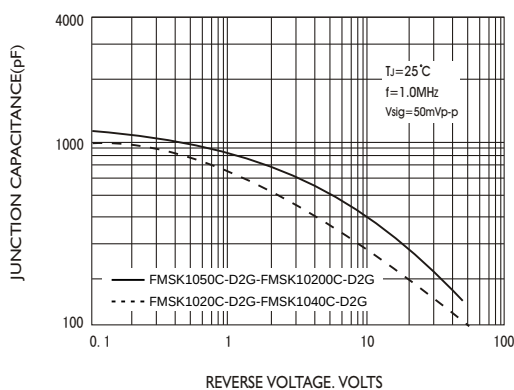


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE

