



FMSK1620C-D2G THRU FMSK16200C-D2G

Schottky Barrier Rectifier

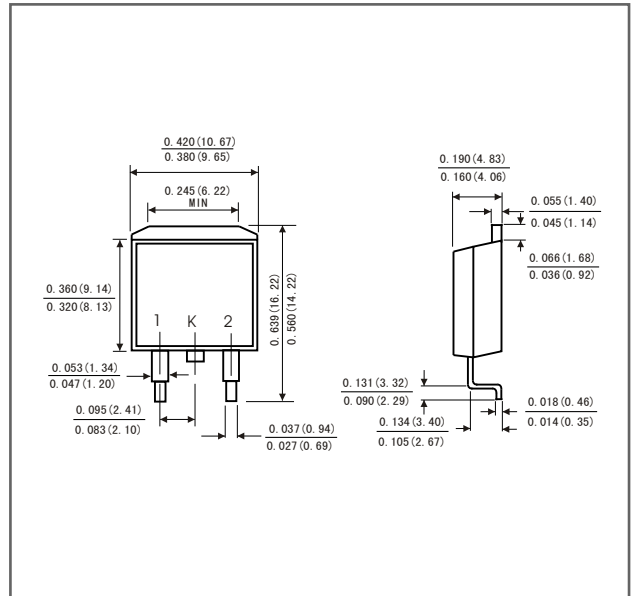
Reverse Voltage: 20 to 200 Volts
Forward Current: 16.0 Ampere

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 1620 C-D2G	FMSK 1640 C-D2G	FMSK 1645 C-D2G	FMSK 1650 C-D2G	FMSK 1660 C-D2G	FMSK 1680 C-D2G	FMSK 16100 C-D2G	FMSK 16150 C-D2G	FMSK 16200 C-D2G	Units
Maximum repetitive peak reverse voltage	V _{RRM}	20	40	45	50	60	80	100	150	200	Volts
Maximum RMS voltage	V _{RMS}	14	28	31.5	35	42	56	70	105	140	Volts
Maximum DC blocking voltage	V _{DC}	20	40	45	50	60	80	100	150	200	Volts
Maximum average forward rectified current(see Fig.1)	Per leg	8.0									Amps
	Total device	16.0									
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	200.0									Amps
Maximum instantaneous forward voltage at 16.0 A	V _F	0.60		0.75		0.85		0.90		0.95	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	I _R	0.2									mA
		30			50						
Typical thermal resistance (Note 2)	R _{θJC}	3.0									°C/W
Operating junction temperature range	T _J	-65 to +150									°C
Storage temperature range	T _{STG}	-65 to +150									°C

Notes: 1.Pulse test: 300 μs pulse width,1% duty cycle
 2.Thermal resistance from junction to case

Rating and characteristic curves

FIG.1-FORWARD CURRENT DERATING CURVE

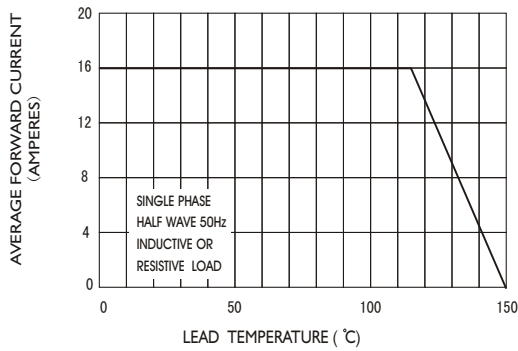


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

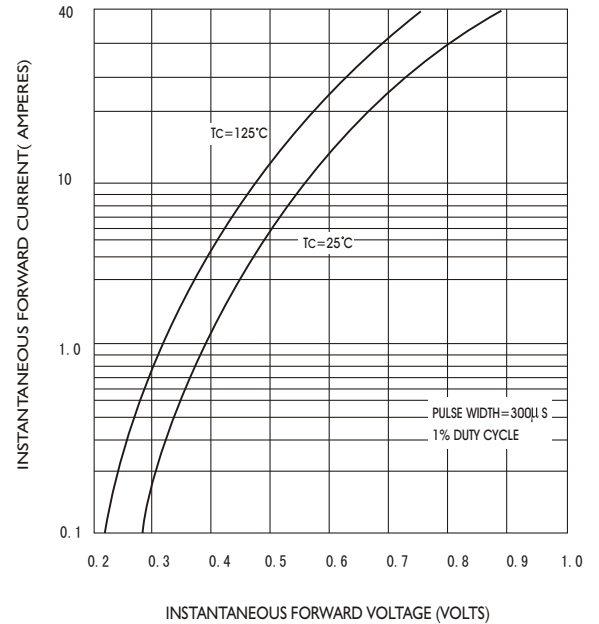


FIG.4-TYPICAL JUNCTION CAPACITANCE

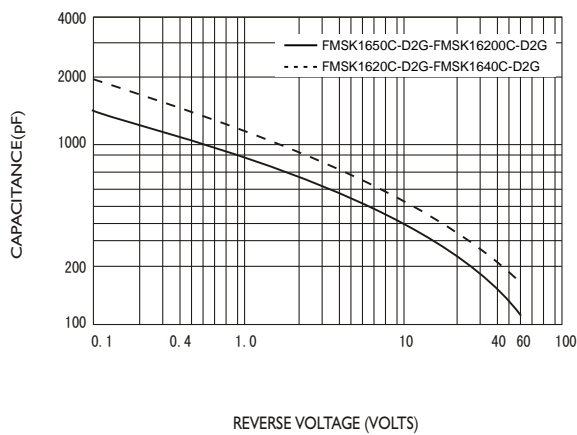


FIG.3-TYPICAL REVERSE CHARACTERISTICS

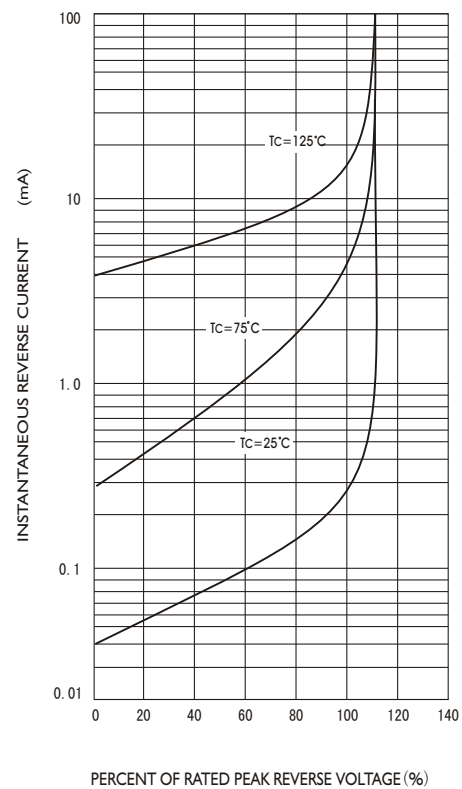


FIG.5-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

