

FM1645C

SCHOTTKY BARRIER RECTIFIER

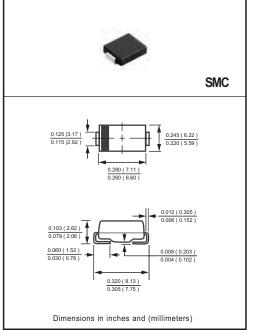
VOLTAGE 45 Volts CURRENT 16 Amperes

FEATURES

- * Low switching noise
- * Low forward voltage drop
- * Low thermal resistance
- * High current capability
- * High surge capabitity
- * High reliability
- * Ideal for solar panel PV application such as By-Pass diode

MECHANICAL DATA

* Epoxy : Device has UL flammability classification 94V-0
* Halogen-free



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25 °C ambient temperature unless otherwise specified.

RATINGS	SYMBOL	FM1645C	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	45	Volts
Maximum RMS Voltage	V _{RMS}	31.5	Volts
Maximum DC Blocking Voltage	V _{DC}	45	Volts
Maximum DC Forward Current @TL=125°C(Note 1)	lo	16	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	300	Amps
Typical Current Square Time	I ² T	373.3	A ² S
Typical Thermal Resistance	Reja	46.8	
Typical memai Resistance	R _{θJC}	0.8	°C/W
	R		
Operating Temperature Range	TJ	175(Tj 200°C in Bypass Mode)	° C
Storage Temperature Range	T _{STG}	-55 to + 175	° C

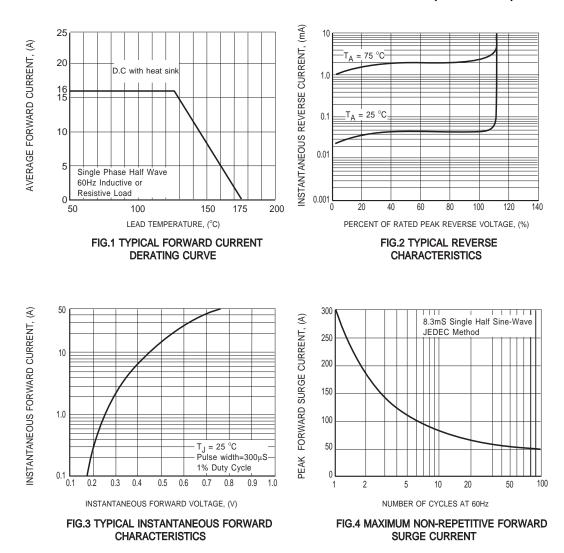
ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

CHARACTERISTICS		SYMBOL	FM1645C	UNITS
Maximum Instantaneous Forward Voltage at 16 A DC	@T _A = 25°C	VE	.54	Volts
	@T _A = 75°C	۷F	.47	VOILS
Maximum Average Reverse Current	@T _A = 25°C	-	100	uА
at Rated DC Blocking Voltage	@T _A = 75°C	IR	2.5	mA

NOTES: 1. Heat-sink mounted 10mm max from body

2. "RoHS compliant"

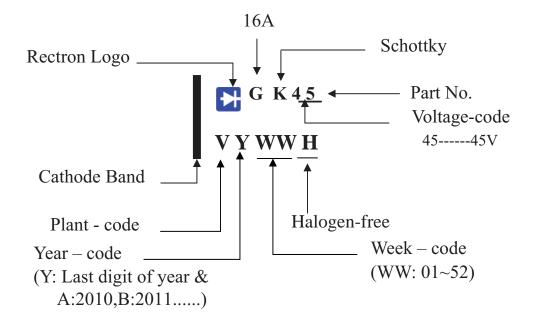
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RATING AND CHARACTERISTICS CURVES (FM1645C)



Marking Description



PACKAGING OF DIODE AND BRIDGE RECTIFIERS

REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	EA PER INNER BOX	COMPONENT SPACE (mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)		GROSS WEIGHT(Kg)
SMC	-W/-T	3,000	3,000			330	360*355*360	24,000	11.50

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