

**SURFACE MOUNT GLASS PASSIVATED  
HIGH VOLTAGE FAST RECOVERY RECTIFIER  
VOLTAGE RANGE 2000 Volts CURRENT 0.5 Ampere**

**FEATURES**

- \*Fast switching
- \*Low leakage
- \*High current capability
- \*High surge capability
- \*High reliability
- \*Glass passivated junction

**MECHANICAL DATA**

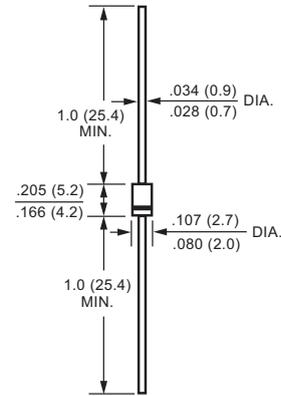
- \* Case: Molded plastic
- \* Epoxy: Device has UL flammability classification 94V-O
- \* Lead: MIL-STD-202E method 208C guaranteed
- \* Mounting position: Any
- \* Weight: 0.336 gram

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified.  
Single phase, half wave, 60 Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.



DO-41



**MAXIMUM RATINGS** (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	R2000FG	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	2000	Volts
Maximum RMS Volts	V <sub>RMS</sub>	1400	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	2000	Volts
Maximum Average Forward Rectified Current at TA = 55°C	I <sub>o</sub>	500	mAmps
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	20	Amps
Typical Current Squared Time	I <sup>2</sup> t	1.66	A <sup>2</sup> S
Typical Thermal Resistance (Note 1)	R <sub>θJA</sub>	65	°C/W
	R <sub>θJL</sub>	30	
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-65 to + 175	°C

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

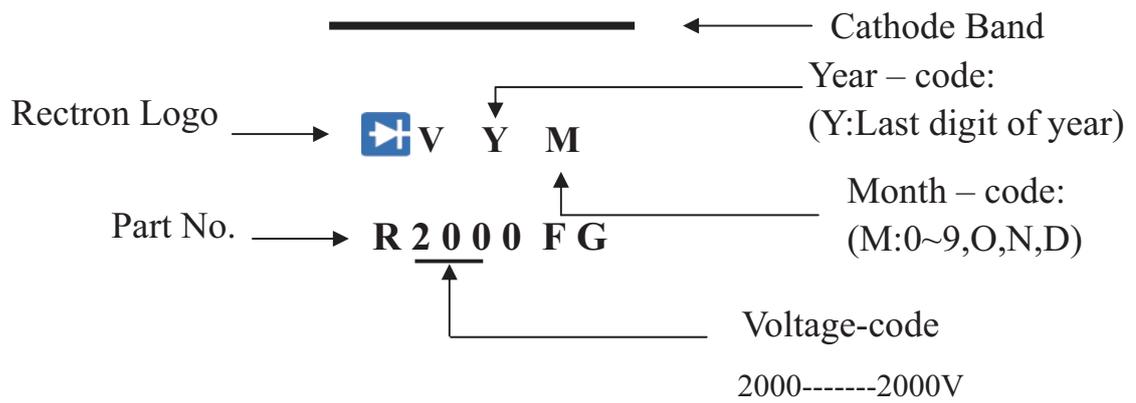
CHARACTERISTICS	SYMBOL	R2000FG	UNITS
Maximum Instantaneous Forward Voltage at 0.1A DC	V <sub>F</sub>	2.5	Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@ TA = 25°C	1.0	uAmps
	@ TA = 150 °C	500	uAmps
Maximum Reverse Recovery Time (Note2 )	t <sub>rr</sub>	300	nSec

NOTES : 1. Thermal Resistance : Mounted on PCB.  
2. Test Conditions: I<sub>F</sub> = 0.5A, I<sub>R</sub> = -1.0A, I<sub>RR</sub> = -0.25A

2021-06  
REV:A



## Marking Description



## PACKAGING OF DIODE AND BRIDGE RECTIFIERS

### BULK PACK

PACKAGE	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
DO-41	-B	1,000	194*75*21	415*220*255	50,000	16.2

### REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	EA PER INNER BOX	COMPONENT SPACE (mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
DO-41	-T	5,000	5,000	5.0	52	330	355*350*335	20,000	10.49

### AMMO PACK

PACKAGE	PACKING CODE	REEL ( EA )	COMPONENT SPACE(mm)	TAPE SPACE (mm)	BOX SIZE (mm)	CARTON SIZE(mm)	CARTON ( EA )	GROSS WEIGHT (Kg)
DO-41	-F	3,000	5.0	52	255*73*100	400*268*225	30,000	13.0
DO-41	-E	3,000	5.0	26	256*48*94	365*270*217	42,000	12.41

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