


VOLTAGE RANGE: 1200 --- 2000 V
CURRENT: 0.2A to 0.5A

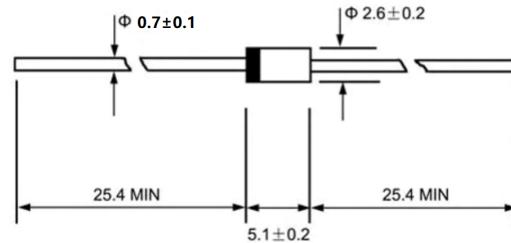
Features

- ❖ Low cost
- ❖ Diffused junction
- ❖ Low leakage
- ❖ Low forward voltage drop
- ❖ High current capability
- ❖ Easily cleaned with alcohol,Isopropanol and similar solvents
- ❖ The plastic material carries U/L recognition 94V-0

Mechanical Data

- ❖ Case:JEDEC DO--41,molded plastic
- ❖ Polarity: Color band denotes cathode
- ❖ Weight: 0.012ounces,0.34 grams
- ❖ Mounting position: Any

Dimensions in millimeters



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 by 20%.

Parameter	Symbol	R1200F	R1500F	R1800F	R2000F	UNITS
Maximum recurrent peak reverse voltage	V_{RRM}	1200	1500	1800	2000	V
Maximum RMS voltage	V_{RMS}	840	1050	1260	1400	V
Maximum DC blocking voltage	V_{DC}	1200	1500	1800	2000	V
Maximum average forward rectified current 9.5mm lead length, @ $T_A=75^\circ C$	$I_{F(AV)}$	0.5			0.2	A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load @ $T_J=125^\circ C$	I_{FSM}	30.0				A
Maximum instantaneous forward voltage @ 0.5A	V_F	2.5		4.0		V
Maximum reverse current @ $T_A=25^\circ C$ at rated DC blocking voltage @ $T_A=100^\circ C$	I_R	5.0 100.0				μA
Maximum reverse capacitance (Note1)	t_{rr}	500				ns
Typical thermal resistance (Note2)	$R_{\theta JA}$	35				$^\circ C/W$
Typical junction capacitance (Note3)	C_J	15				pF
Operating junction temperature range	T_J	- 55 ---- + 150				$^\circ C$
Storage temperature range	T_{STG}	- 55 ---- + 150				$^\circ C$

 NOTE: 1. Measured with $I_F=0.5A$, $I_R=1A$, $I_{rr}=0.25A$.

2. Thermal resistance from junction to ambient.

3. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.



Ratings AND Characteristic Curves

FIG.1 – FORWARD DERATING CURVE

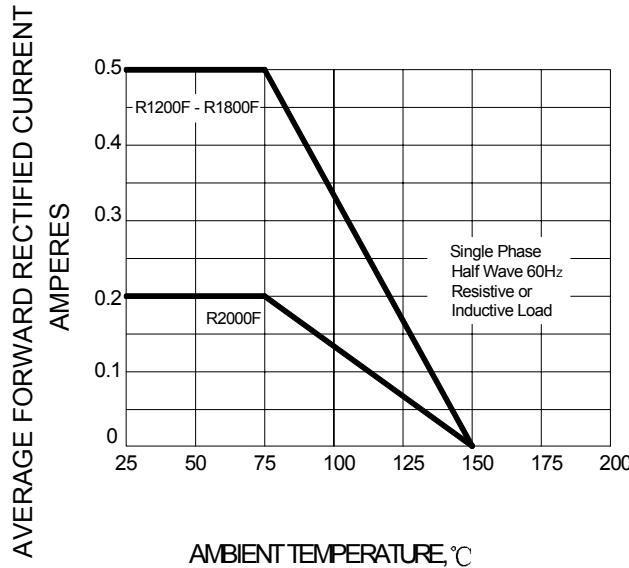


FIG.2 – TYPICAL FORWARD CHARACTERISTICS

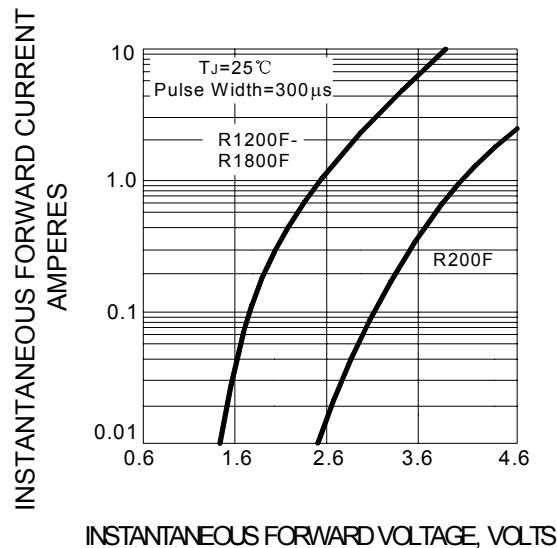


FIG.3 – PEAK FORWARD SURGE CURRENT

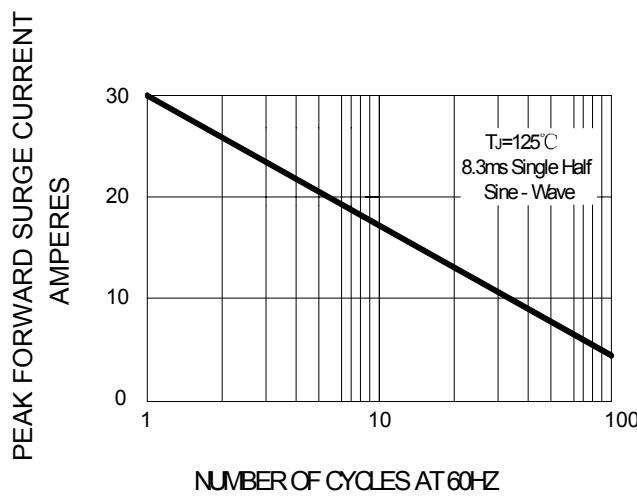
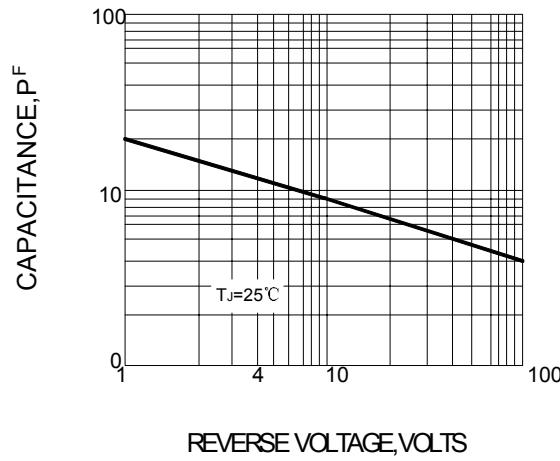


FIG.4 – TYPICAL JUNCTION CAPACITANCE



PACKAGE	SPQ/PCS	CARTON SPQ/PCS	CARTON SIZE/CM	CARTON GW/KG	CARTON NW/KG
DO-41	5000/AMMO	50000	42X28X31	14.00	12.00