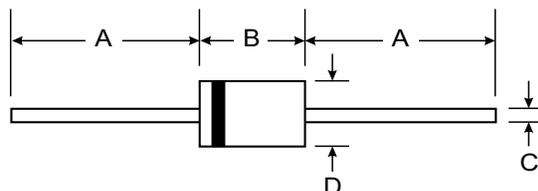


Features

- 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
- Terminals: Axial lead, solderable per MIL-STD-202, Method 208
- Polarity: Color band denotes cathode
- Weight: 0.012 ounces, 0.34 grams
- Mounting position: Any

DO-41		
Dim	Min	Max
A	25.40	—
B	4.06	5.21
C	0.71	0.864
D	2.00	2.72
All Dimensions in mm		

Maximum Ratings and Electrical Characteristics @ T_A = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

		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°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°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°C at rated DC blocking voltage @ T _A =100°C	I _R	5.0				μA
		100.0				
Maximum reverse capacitance (Note1)	t _{rr}	500				ns
Typical thermal resistance (Note2)	R _{θJA}	35				°C/W
Typical junction capacitance (Note3)	C _J	15				pF
Operating junction temperature range	T _J	- 55 ---- + 150				°C
Storage temperature range	T _{STG}	- 55 ---- + 150				°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.



FIG.1 – FORWARD DERATING CURVE

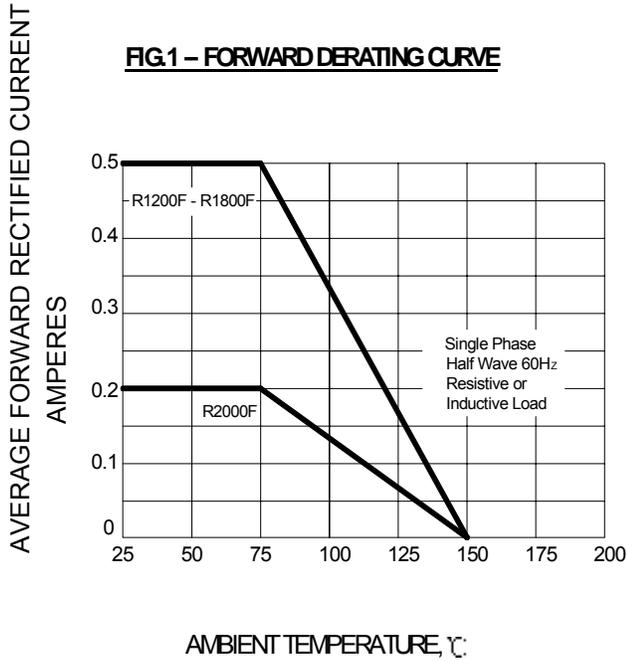


FIG.2 – TYPICAL FORWARD CHARACTERISTICS

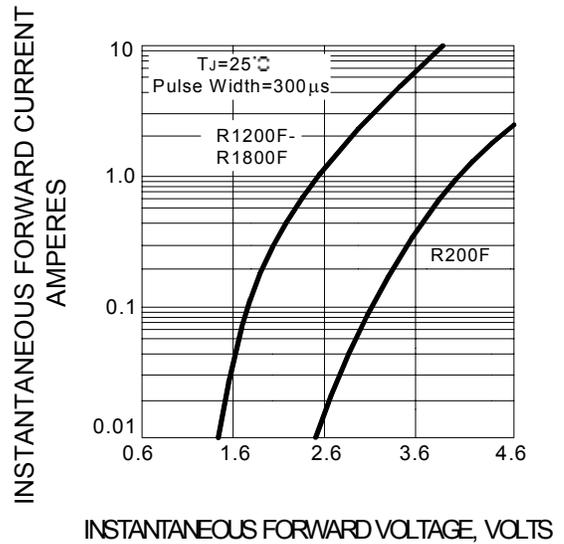


FIG.3 – PEAK FORWARD SURGE CURRENT

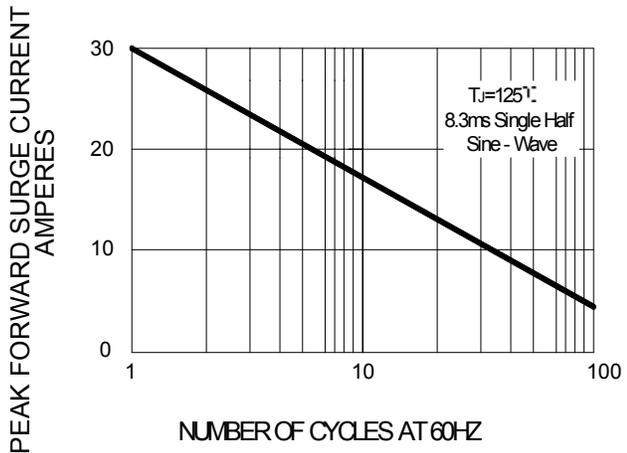


FIG.4 – TYPICAL JUNCTION CAPACITANCE

