PINGWEI ENTERPRISE

R1200F THRU R3000F

0.5&0.2AMPS. FAST RECOVERY PLASTIC RECTIFIER

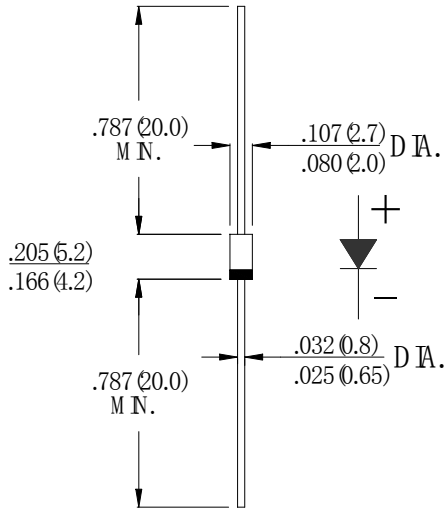
FEATURE

. Fast switching
. High current capability
. Low forward voltage drop
. Low power loss, high efficiency
. High surge capability
. High voltage
. High temperature soldering guaranteed
260°C /10sec/ 0.375" lead length at 5 lbs tension

MECHANICAL DATA

. Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C
. Case: Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy
. Polarity: color band denotes cathode
. Mounting position: any

DO-41



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRONICAL CHARACTERISTICS

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

Type Number	SYMBOL	R1200F	R1500F	R1800F	R2000F	R2500F	R3000F	units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	1200	1500	1800	2000	2500	3000	V
Maximum RMS Voltage	V_{RMS}	840	1050	1260	1400	1750	2100	V
Maximum DC Blocking Voltage	V_{DC}	1200	1500	1800	2000	2500	3000	V
Maximum Average Forward rectified Current at T_A=50°C	$I_{F(AV)}$	0.5			0.2			A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}	30						A
Maximum Forward Voltage Drop per element at 0.5/0.2A DC	V_F	2.5			4.0		5.0	V
Maximum DC Reverse Current @T_A=25°C	I_R	5.0						μA
at rated DC blocking voltage @T_A =100°C		500						
Maximum Full Load Reverse Current Average Full Cycle .375"(9.5mm) lead length at T_L=55°C		100						
Maximum Reverse Recovery Time (Note 1)	t_{rr}	500						ns
Typical Junction Capacitance (Note 2)	C_J	30						pF
Storage Temperature	T_{STG}	-55 to +150						°C
Operation Junction Temperature	T_J	-55 to +125						°C

Note:
1. Test Conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A
2. Measured at 1MHz and applied reverse voltage of 4.0V.