PINGWEI ENTERPRISE

BY296 THRU BY299

2.0AMPS . FAST RECOVERY RECTIFIERS

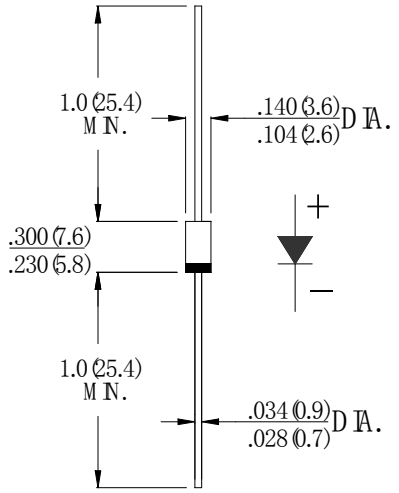
FEATURE

. Fast switching
. High current capability
. Low forward voltage drop
. Low power loss, high efficiency
. High surge capability
. 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-15



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

Type Number	SYMBOL	BY296	BY297	BY298	BY299	units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	100	200	400	800	V
Maximum RMS Voltage	V_{RMS}	70	140	280	560	V
Maximum DC blocking Voltage	V_{DC}	100	200	400	800	V
Maximum Average Forward Rectified Current .375"(9.5mm) lead length at T_A =55°C	$I_{F(AV)}$	2.0				A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	60.0				A
Maximum Instantaneous forward Voltage at 2.0A DC	V_F	1.3				V
Maximum DC Reverse Current @T_A=25°C at rated DC blocking voltage @T_A =100°C	I_R	5.0 100.0				μA
Maximum Reverse Recovery Time (Note 1)	t_{rr}	250				ns
Typical Junction Capacitance (Note 2)	C_J	30				pF
Typical Thermal Resistance (Note 3)	$R_{(JA)}$	75				°C/W
Storage Temperature	T_{STG}	-55 to +150				°C
Operation Junction Temperature	T_J	-55 to +150				°C

Note:

1. Test Conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A
2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
3. Thermal Resistance from Junction to Ambient at 0.375"（9.5mm）lead length, vertical P.C. Board Mounted.