

HIGH VOLTAGE RECTIFIERS

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

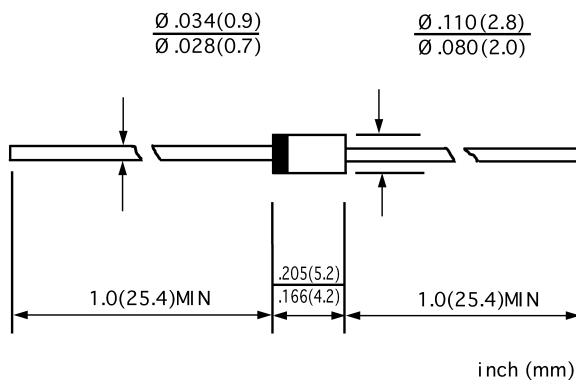
FEATURES

- ◇ 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: 0.012ounces,0.34 grams
- ◇ Mounting position: Any

DO - 41



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

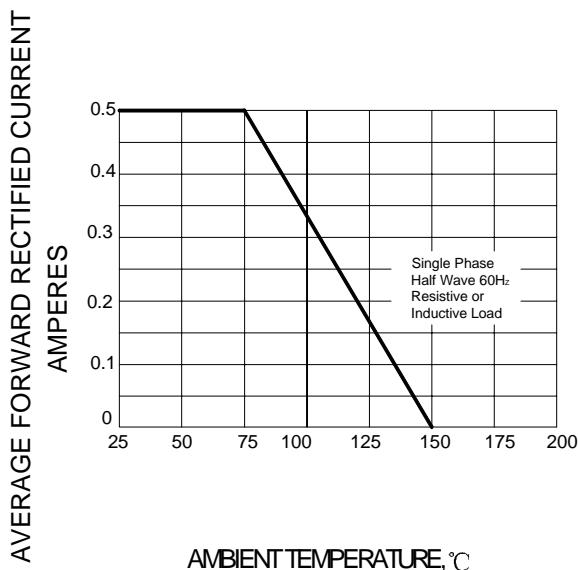
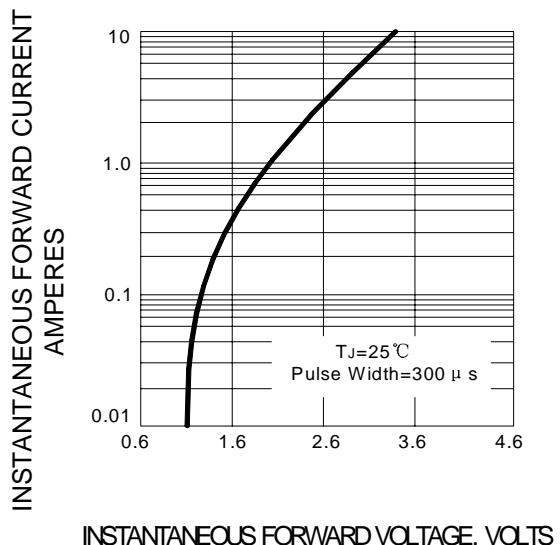
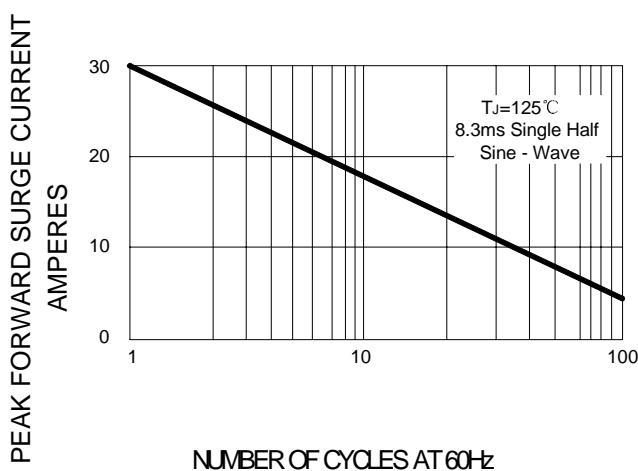
Single phase,half wave,60 Hz,resistive or inductive load. For capacitive load,derate by 20%.

		R1200	R1500	R1800	R2000	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				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	2.0				V
Maximum reverse current $@T_A=25^\circ C$ at rated DC blocking voltage $@T_A=100^\circ C$	I_R	5.0 50.0				μA
Typical thermal resistance (Note1)	$R_{\theta JA}$	35				$^\circ C/W$
Typical junction capacitance (Note2)	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. Thermal resistance from junction to ambient.

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

www.diode.kr

FIG1 – FORWARD DERATING CURVEFIG2 – TYPICAL FORWARD CHARACTERISTICSFIG3 – PEAK FORWARD SURGE CURRENTFIG4 – TYPICAL JUNCTION CAPACITANCE