HIGH VOLTAGE RECTIFIERS

VOLTAGE RANGE: 2500 --- 5000 V

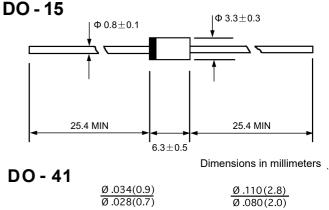
CURRENT: 0.2 A

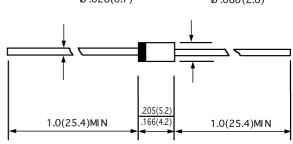
■ FEATURES

- Low cost
- 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--15,molded plastic
- Terminals: Axial lead ,solderable per MIL-STD-202,Method 208
- Polarity: Color band denotes cathode
- Weight: 0.014 ounces, 0.39 grams
- Mounting position: Any





inch (mm)

■ MAXIMUM RATINGS AND ELECTRICAL CHARACTERIST

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%.

		R2500	R3000	R4000	R5000	UNITS
Maximum recurrent peak reverse voltage	V_{RRM}	2500	3000	4000	5000	V
Maximum RMS voltage	V_{RMS}	1750	2100	2800	3500	V
Maximum DC blocking voltage	V_{DC}	2500	3000	4000	5000	V
Maximum average forward rectified current 9.5mm lead length, @T _A = 75℃	I _{F(AV)}	0.2				А
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 @ 0.2A	V _F	3.0	4.0	5.0		V
Maximum reverse current @T _A =25°C at rated DC blocking voltage @T _A =100°C	I _R	5.0 50.0				μА
Typical junction capacitance (Note1)	C_J	30				рF
Typical thermal resistance (Note2)	R _{eJA}	35				°C/W
Operating junction temperature range	TJ	-55 - -1 2 5				$^{\circ}\!\mathbb{C}$
Storage temperature range	T _{STG}	- 55 + 150				$^{\circ}\!\mathbb{C}$

NOTE: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2. Thermal resistance from junction to ambient.

■ RATINGS AND CHARACTERISTIC CURVES

FIG.1 - FORWARD DERATING CURVE

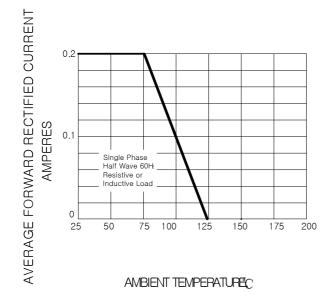


FIG.2 - TYPICAL FORWARD CHARACTERISTICS

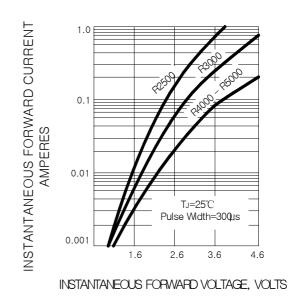


FIG.3 - PEAK FORWARD SURGE CURRENT

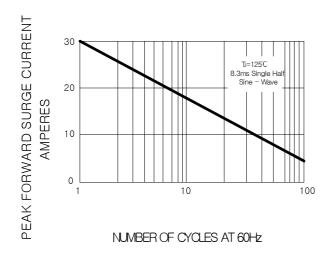
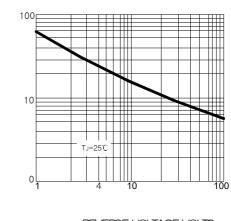


FIG.4 - TYPICAL JUNCTION CAPACITANCE



CAPACITANCE, pF