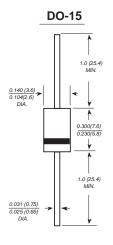
HIGH VOLTAGE RECTIFIER



Dimensions in inches and (millimeters)

FEATURES

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- ◆ Low reverse leakage
- Built-in strain relief,ideal for automated placement
- High forward surge current capability
 High temperature soldering guaranteed: 250°C/10 seconds at terminals

MECHANICAL DATA

Case: JEDEC DO-15 molded plastic body

Terminals: Solder plated, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.014 ounce, 0.40 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	SYMBOLS	CGP15	DGP15	EGP15	FGP15	UNITS
Maximum repetitive peak reverse voltage	Vrrm	1300	1600	1800	2000	VOLTS
Maximum RMS voltage	VRMS	910	1120	1260	1400	VOLTS
Maximum DC blocking voltage	VDC	1300	1600	1800	2000	VOLTS
Maximum average forward rectified current at T∟=110°C	l(AV)	1.5				Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	İfsm	60.0				Amps
Maximum instantaneous forward voltage at 1.5A	VF	1.1				Volts
Maximum DC reverse current Ta=25℃ at rated DC blocking voltage Ta=100℃	lR	5.0 50.0				uA
Typical junction capacitance (NOTE 1)	C¹	15.0				pF
Typical thermal resistance (NOTE 2)	RqJA	70.0				°C/W
Operating junction and storage temperature range	ТЈ,Тѕтс	-55 to +150				°C
Maximum reverse recovery time (NOTE 1)	trr	1.5				us

Note:1.Measured at 1MHz and applied reverse voltage of 4.0V D.C. 2.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas



AVERAGE FORWARD RECTIFIED CURRENT, AMPERES

FIG. 1- FORWARD CURRENT DERATING CURVE

2.0

1.6

1.2

0.8

Single Phase Half Wave 60Hz Reastive or Inductive Load

0.4

AMBIENT TEMPERATURE, °C

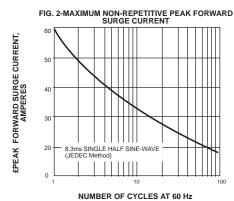


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

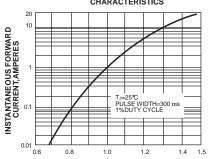
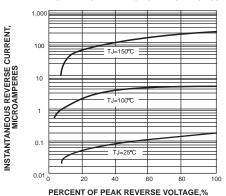
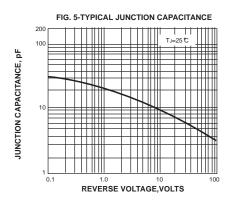
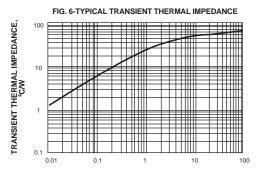


FIG. 4-TYPICAL REVERSE CHARACTERISTICS



INSTANTANEOUS FORWARD VOLEAGE, VOLTS





t,PULSE DURATION,sec.