

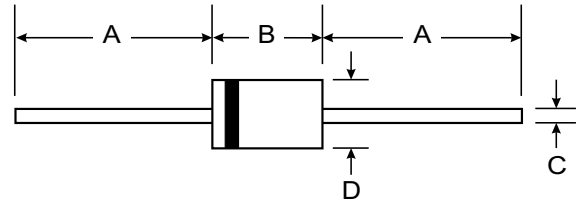
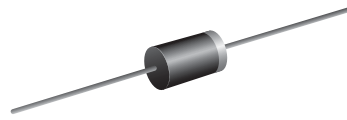
**VOLTAGE RANGE: 400 - 600V**  
**CURRENT: 1.5 A**

### Features

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability

### Mechanical Data

- Case: DO-15, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.40 grams (approx.)
- Mounting Position: Any
- Marking: Type Number



DO-15		
Dim	Min	Max
A	25.40	—
B	5.50	7.62
C	0.686	0.889
D	2.60	3.60
All Dimensions in mm		

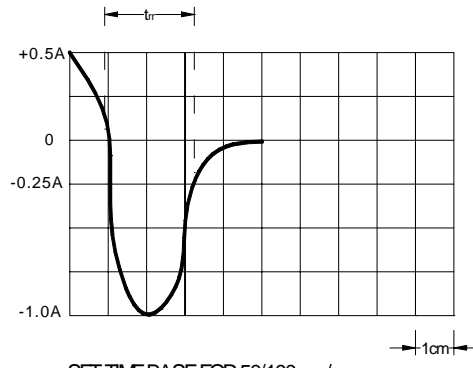
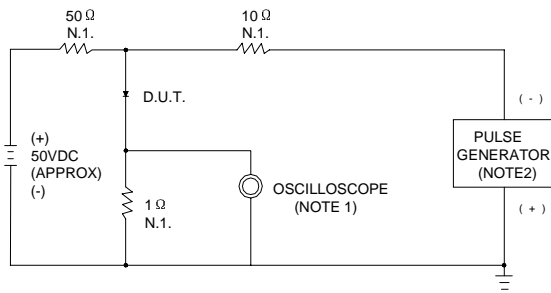
### Maximum Ratings and Electrical Characteristics T<sub>A</sub> = 25°C unless otherwise specified

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

Characteristic	Symbol	ERD28-04	ERD28-06	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	400	600	V
RMS Reverse Voltage	V <sub>R(RMS)</sub>	280	420	V
Average Rectified Output Current (Note 1) <small>@T<sub>A</sub> = 55°C</small>	I <sub>O</sub>	1.5		A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	70		A
Forward Voltage <small>@I<sub>F</sub> = 1.5A</small>	V <sub>FM</sub>	1.1		V
Peak Reverse Current <small>@T<sub>A</sub> = 25°C</small> At Rated DC Blocking Voltage <small>@T<sub>A</sub> = 100°C</small>	I <sub>RM</sub>	5.0 100		μA
Reverse Recovery Time (Note 2)	t <sub>rr</sub>	400		nS
Typical Junction Capacitance (Note 3)	C <sub>j</sub>	180		pF
Operating Temperature Range	T <sub>j</sub>	-65 to +125		°C
Storage Temperature Range	T <sub>STG</sub>	-65 to +150		°C

- Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case  
 2. Measured with I<sub>F</sub> = 0.5A, I<sub>R</sub> = 1.0A, I<sub>RR</sub> = 0.25A. See figure 5.  
 3. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

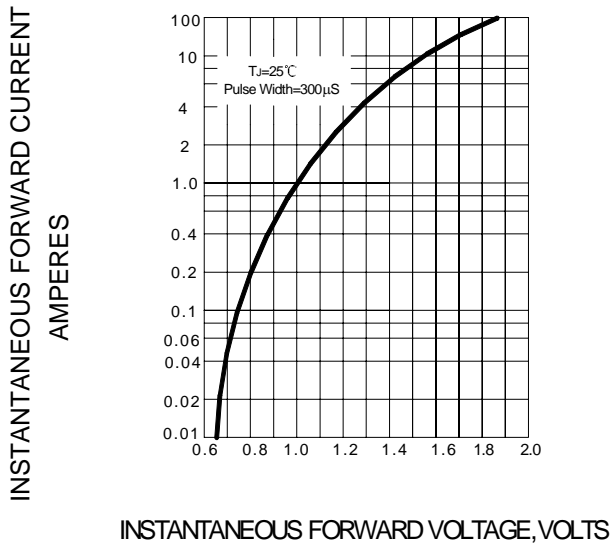
**FIG.1 – REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM**



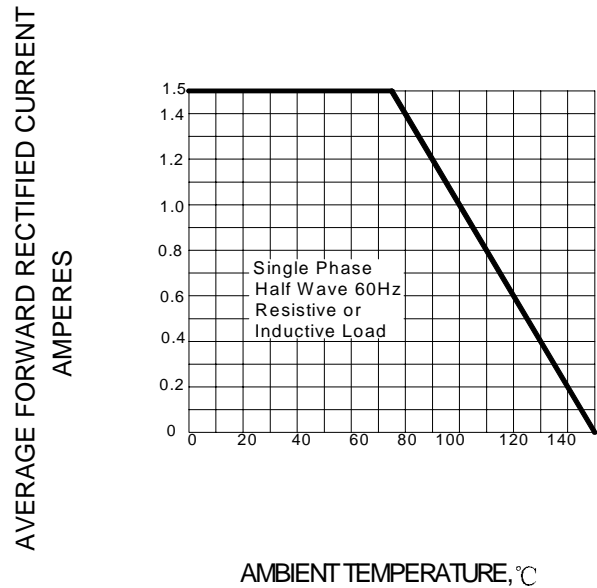
NOTES: 1. RISE TIME = 7ns MAX. INPUT IMPEDANCE = 1MΩ, 22pF  
Ω

SET TIME BASE FOR 50/100 ns /cm

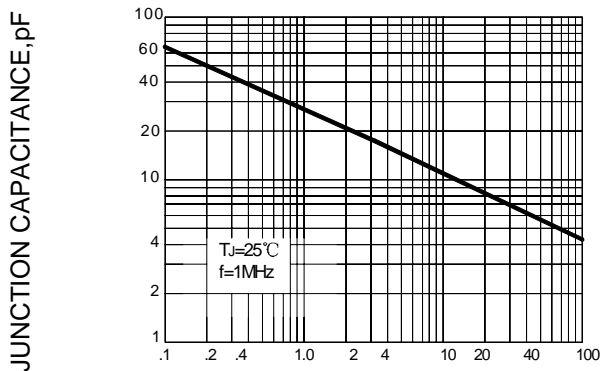
**FIG.2 – TYPICAL FORWARD CHARACTERISTIC**



**FIG.3 – FORWARD DERATING CURVE**



**FIG.4 – TYPICAL JUNCTION CAPACITANCE**



**FIG.5 – PEAK FORWARD SURGE CURRENT**

