

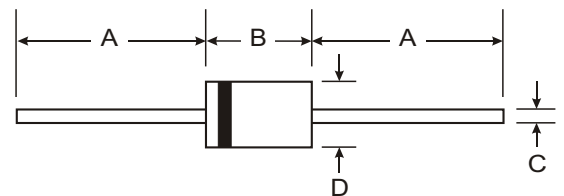
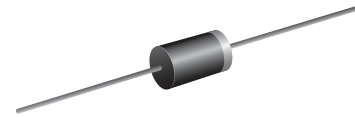
**VOLTAGE RANGE: 3000V**  
**CURRENT: 0.3 A**

### Features

- High voltage
- High current capability
- Low leakage current
- High surge capability
- Low cost

### Mechanical Data

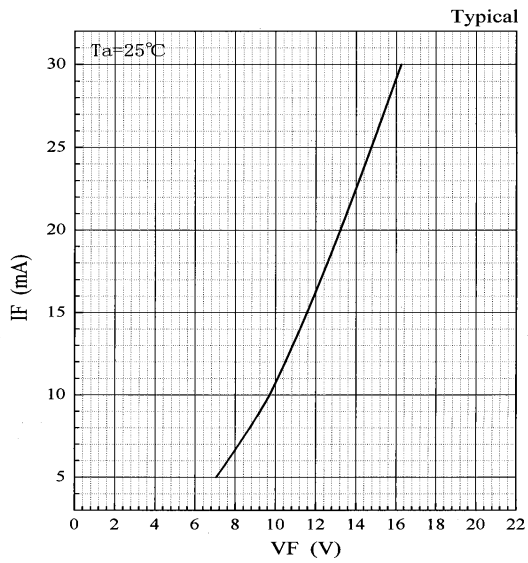
- Case: D O - 4 1 Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.34 grams (approx.)
- Mounting Position: Any
- Marking: Type Number



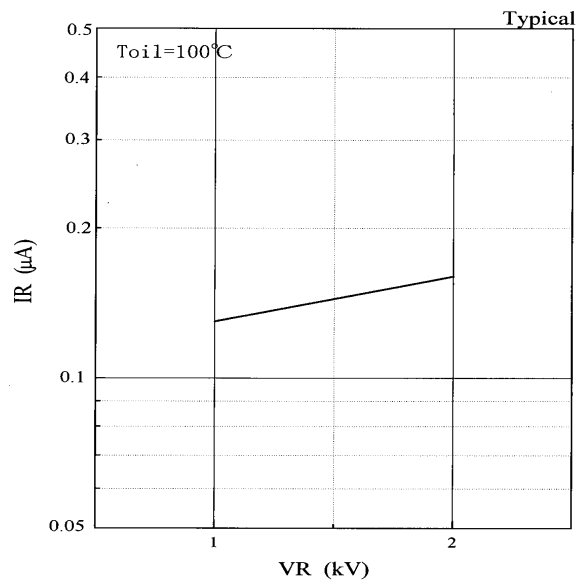
DO-41		
Dim	Min	Max
A	25.40	—
B	4.06	5.21
C	0.71	0.864
D	2.00	2.72
All Dimensions in mm		

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

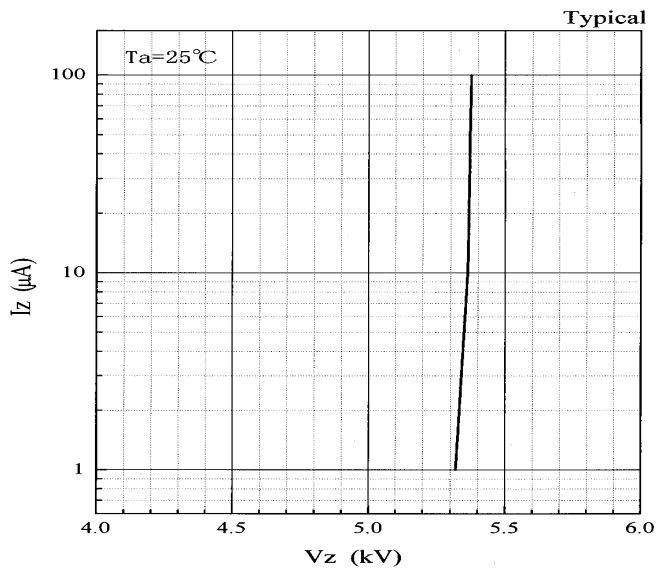
Characteristic	Conditions	Symbols	ESJA04-03A	Unit
Repetitive peak reverse voltage		V <sub>RRM</sub>	3	KV peak
Non-repetitive peak forward current	50Hz Sine-half wave peak value	I <sub>FSM</sub>	0.3	A peak
Average forward current	50Hz Sine-wave	I <sub>AV</sub>	1	mA
Allowable junction temperature		T <sub>j</sub>	120	°C
Storage Temperature range		T <sub>stg</sub>	-40—120	°C
Allowable operating case temperature		T <sub>c</sub>	100	°C
Maximum forward voltage drop	1F=10mA	V <sub>F</sub>	12	V
Maximum reverse current	V <sub>R</sub> =12KV	I <sub>R1</sub>	2	uA
Maximum reverse current	V <sub>R</sub> =12KV, 100°C	I <sub>R2</sub>	5	uA
Maximum reverse recovery time	1F=2mA, 1R=4mA	T <sub>rr</sub>	0.08	uS
Maximum junction capacitance	F=1MHz, V <sub>R</sub> =0V	C <sub>j</sub>	3	PF



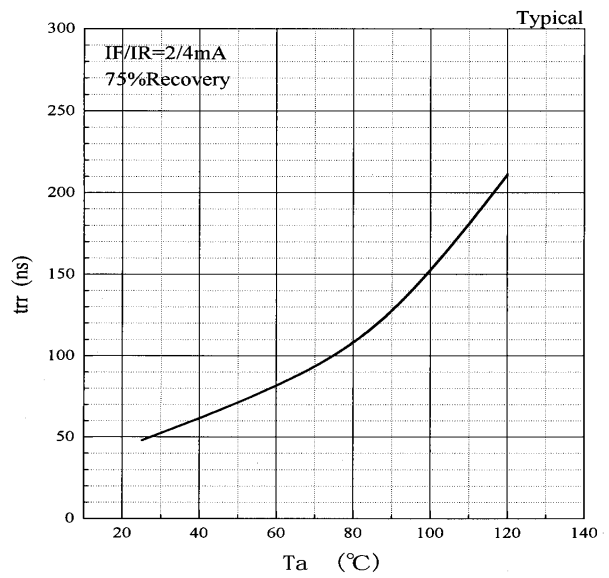
*Fig. 1 Forward characteristic [VF-IF]*



*Fig. 2 Reverse characteristic [VR-IR]*



*Fig. 3 Avalanche characteristic [Vz-IZ]*



*Fig. 4 Reverse recovery time characteristic [Ta-trr]*