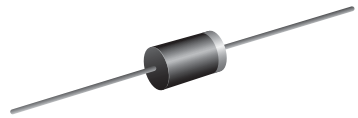
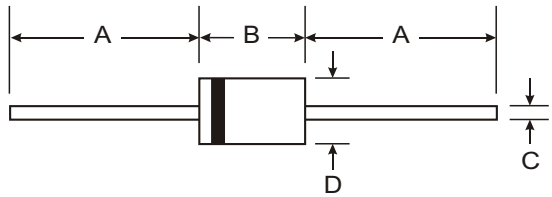
ESJA04-02A

HIGH VOLTAGE RECTIFIER DIODES

Features

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





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		

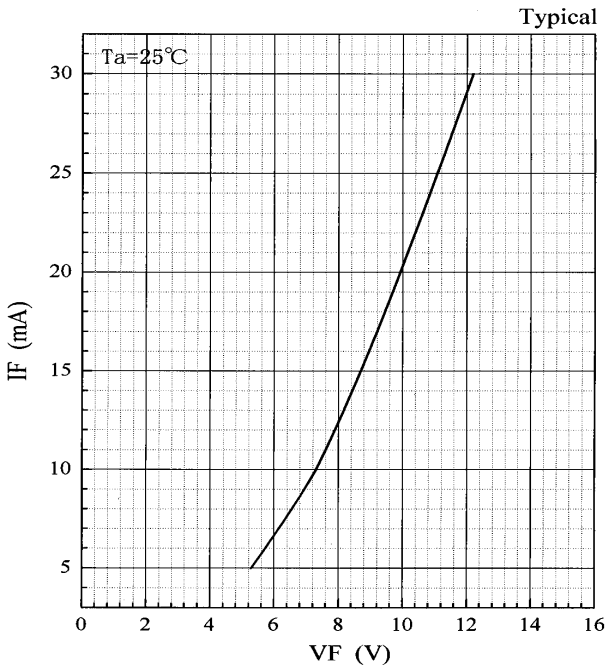
Mechanical Data

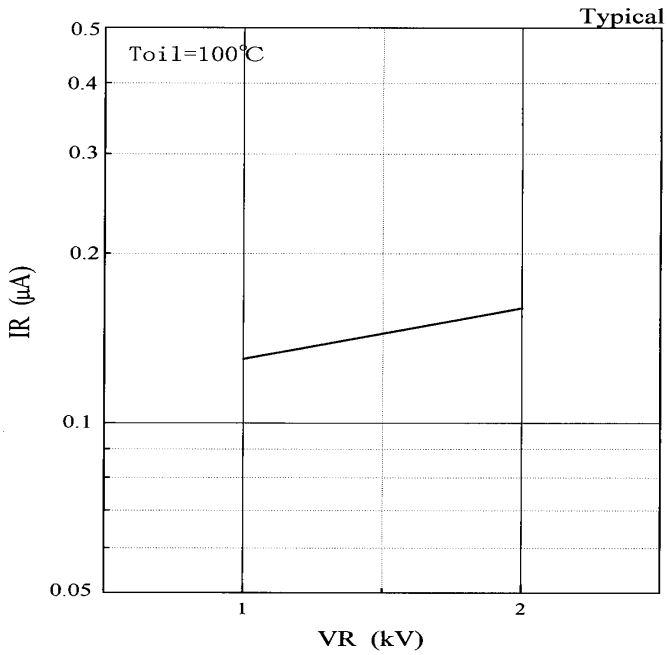
- Case: DO-41,Molded Plastic
- Terminals: Plated Leads Solderable per
- MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.35 grams (approx.)
- Mounting Position: Any
- Marking: Type Number

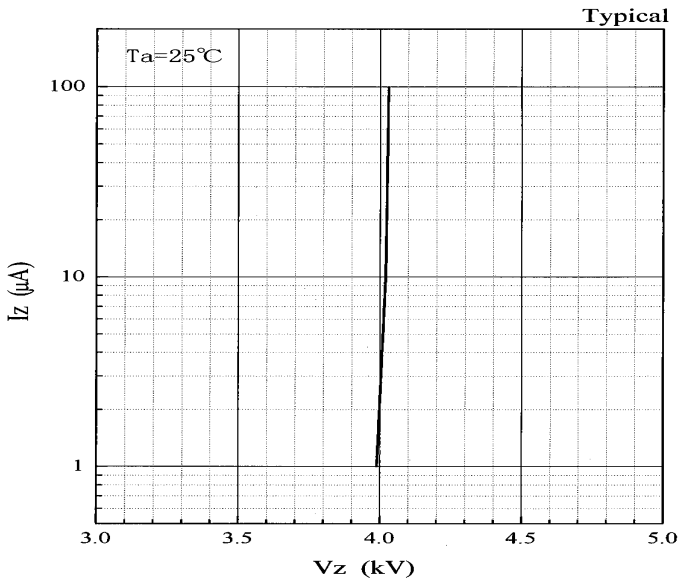
RoHS COMPLIANT

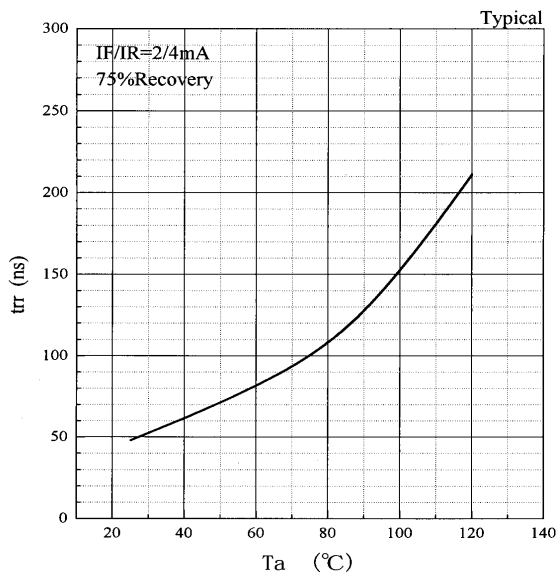
Maximum Ratings and Electrical Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Conditions	Symbols	ESJA04-02A	Units
Repetitive peak reverse voltage		V_{RRM}	2	KV peak
Non-repetitive peak forward current	50Hz Sine-half wave peak value	I_{FSM}	0.3	A peak
Average forward current	50Hz Sine-wave	I_{AV}	1	mA
Allowable junction temperature		Tj	120	°C
Storage Temperature range		Tstg	-40—120	°C
Allowable operating case temperature		Tc	100	°C
Maximum forward voltage drop	1F=10mA	VF	12	V
Maximum reverse current	VR=12KV	IR_1	2	uA
Maximum reverse current	VR=12KV,100°C	IR_2	5	uA
Maximum reverse recovery time	1F=2mA,1R=4mA	Trr	0.08	uS
Maximum junction capacitance	F=1MHz,VR=0V	Cj	3	PF


Typical
Ta=25℃
IF (mA)
VF (V)
30
25
20
15
10
5
0
2
4
6
8
10
12
14
16


Typical
Toil=100℃
IR (μA)
VR (kV)
0.5
0.4
0.3
0.2
0.1
0.05
1
2


Typical
Ta=25℃
Iz (μA)
Vz (kV)
100
10
1
3.0
3.5
4.0
4.5
5.0


Typical
IF/IR=2/4mA
75%Recovery
trr (ns)
Ta (℃)
300
250
200
150
100
50
0
20
40
60
80
100
120
140