

16kV 50mA HIGH VOLTAGE DIODES

ESJG05F16 is high reliability resin molded type high voltage diode in small size package which is sealed a multilayered mesa type silicon chip by epoxy resin.

Features

- High speed switching
- High Current
- High temperature resistance
- High reliability design
- High Voltage

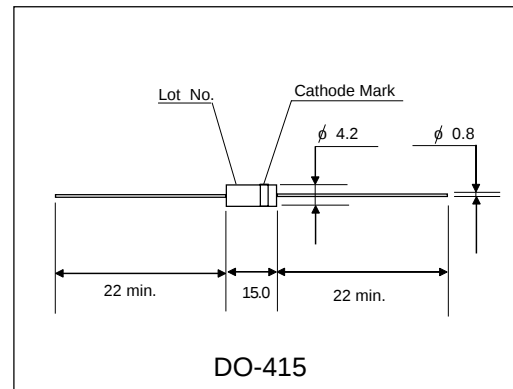
Applications

- X light Power supply
- Laser
- Voltage doubler circuit
- Microwave emission power

Maximum Ratings and Characteristics

- Absolute Maximum Ratings

Outline Drawings : mm



Cathode Mark

Type	Mark
ESJG05F16	

Items	Symbols	Condition	ESJG05F16	Units
Repetitive Peak Reverse Voltage	V_{RRM}		16	kV
Average Output Current	I_O	$T_a=30^{\circ}\text{C}$, Resistive Load	50	mA
Surge Current	I_{FSM}		5.0	A _{peak}
Junction Temperature	T_J		160	$^{\circ}\text{C}$
Allowable Operation Case Temperature	T_c		160	$^{\circ}\text{C}$
Storage Temperature	T_{stg}		-40 to +165	$^{\circ}\text{C}$

- Electrical Characteristics ($T_a=25^{\circ}\text{C}$ Unless otherwise specified)

Items	Symbols	Conditions	ESJG05F16	Units
Maximum Forward Voltage Drop	V_F	at 25°C , $I_F = I_{F(AV)}$	24	V
Maximum Reverse Current	I_{R1}	at 25°C , $V_R = V_{RRM}$	2.0	μA
	I_{R2}	at 160°C , $V_R = V_{RRM}$	100	μA
Maximum Reverse Recovery Time	T_{rr}	at 25°C	80	nS
Junction Capacitance	C_j	at 25°C , $V_R=0\text{V}$, $f=1\text{MHz}$	--	pF