

40kV 30mA HIGH VOLTAGE DIODE

HVRL400 is high reliability resin molded type high voltage diode in small size package which is sealed a multilayed mesa type silicon chip by epoxy resin.

■ Features

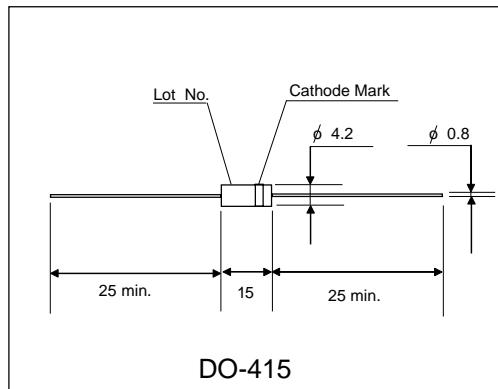
- High speed switching
- Low VF
- High surge resistivity for CRT discharge
- High reliability design
- Ultra small pakage

■ 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
HVRL400	

Items	Symbols	Condition	HVRL400	Units
Repetitive Peak Renerse Voltage	V _{RRM}		40	kV
Average Output Current	I _o	T _a =25°C, Resistive Load	30	mA
Suege Current	I _{FSM}	10mS Sine-half wave peak value	5.0	A _{peak}
Junction Temperature	T _j		125	°C
Allowable Operation Case Temperature	T _c		125	°C
Storage Temperature	T _{stg}		-40 to +125	°C

- Electrical Characteristics (T_a=25°C Unless otherwise specified)

Items	Symbols	Conditions	HVRL400	Units
Maximum Forward Voltage Drop	V _F	at 25°C, I _f =I _{F(AV)}	50	V
Maximum Reverse Current	I _{R1}	at 25°C, V _R =40kV	2.0	μA
	I _{R2}	at 100°C, V _R =40kV	20	μA
Maximum Reverse Recovery Time	T _{rr}	at 25°C, I _f =2mA, I _R =4mA	100	nS
Junction Capacitance	C _j	at 25°C, V _R =0V, f=1MHz	1.0	pF