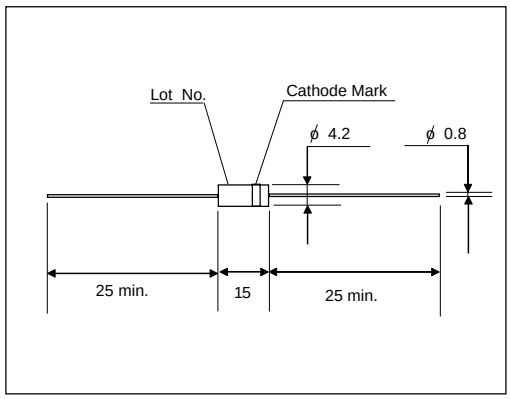
HVRL300

30kV 30mA HIGH VOLTAGE DIODE

HVRL 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.

■ Outline Drawings : mm



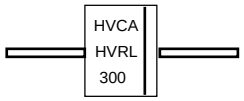
■ Features

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

■ Applications

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

■ Cathode Mark

Type	Mark
HVRL300	

■ Maximum Ratings and Characteristics

● Absolute Maximum Ratings

Items	Symbols	Condition	HVRL300	Units
Repetitive Peak Renerse Voltage	V_{RRM}		30	kV
Average Output Current	I_O	Ta=25°C,Resistive Load	30	mA
Suege Current	I_{FSM}	10mS Sine-half wave peak value	5.0	A_{peak}
Junction Temperature	Tj		155	°C
Allowable Operation Case Temperature	Tc		125	°C
Storage Temperature	T_{stg}		-40 to +155	°C

● Electrical Characteristics (Ta=25°C Unless otherwise specified)

Items	Symbols	Conditions	HVRL300	Units
Maximum Forward Voltage Drop	V_F	at 25°C,$I_F=I_{F(AV)}$	45	V
Maximum Reverse Current	IR1	at 25°C,V_R=30kV	2.0	μA
	IR2	at 100°C,V_R=30kV	20	μA
Maximum Reverse Recovery Time	Trr	at 25°C,I_F=2mA,I_R=4mA	100	nS
Junction Capacitance	Cj	at 25°C,V_R=0V,f=1MHz	1.0	pF

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