



2CL2FP

30 kV, 80 mA
High Voltage Silicon Diode

Features

- Medium power, Fast recovery device
- Molded plastic body, ANSI/UL94 V-0 rated material
- RoHS compliant to Directive 2011/65/EC, Article 4(1), Annex II; Annex III, 7(a)



Device Electrical Characteristics

(25°C ambient temperature unless stated otherwise)

	Conditions	Symbol	Value
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	30,000 Volts
Average Forward Current Maximum	$T_A = 40^\circ\text{C}$	I_{FAVM}	80 mA
Average Forward Current Maximum	$T_{OIL} = 55^\circ\text{C}$	I_{FAVM}	140 mA
Maximum Forward Voltage Drop	$I_F = 140 \text{ mA}$	V_F	46 Volts
Maximum Reverse Current	$V_R = V_{RRM}$	I_R	2.0 μA
Maximum Reverse Recovery Time	$I_F = 40\text{mA}; I_R = 80\text{mA}; I_{RR} = 20\text{mA}$	T_{RR}	100 ηsec
Typical Junction Capacitance	$f=1\text{MHz}, V_R=0\text{DC}$	C_j	1.1pf
Maximum Surge Current	8.3msec, Half Sine	I_{FSM}	10 Amps
Maximum Junction Temperature	-	T_J	150°C
Storage Temperature Range	-	T_{STG}	-55°C to 150°C

Mechanical Data

		Min.		Max.	
		in.	mm	in.	mm
Body Length	A	-	-	0.60	15.2
Body Diameter	D	-	-	0.170	4.3
Lead Length	B	-	-	0.94	23.9
Lead Diameter	C	0.028	0.7	0.032	0.8

