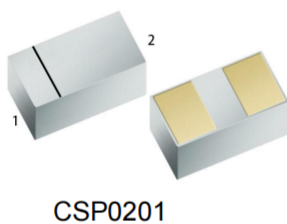


### Features

- High Continuous Forward Current
- Low Reverse Current
- Very Low Forward Voltage Drop
- Very High Switching Speed



### Applications

- surface mount schottky barrier rectifier
- Buck and Boost dc-dc Converters
- Reverse Voltage and Current Protection
- Clamping & Protection



### Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
Reverse Voltage	$V_R$	30	V
Forward Current (DC)	$I_F$	200	mA
Forward Surge Current (60 Hz @ 1 cycle)	$I_{FSM}$	1.5	A

### Thermal Characteristics

Parameter	Symbol	Value	Unit
Total Power Dissipation	PD	312	mW
Typical Thermal Resistance per leg @TA = 25°C	$R_{\theta JA}$	400	°C/W
Operating Junction Temperature Range	$T_J$	-40 to +150	°C
Storage Temperature Range	$T_{STG}$	-40 to +150	°C

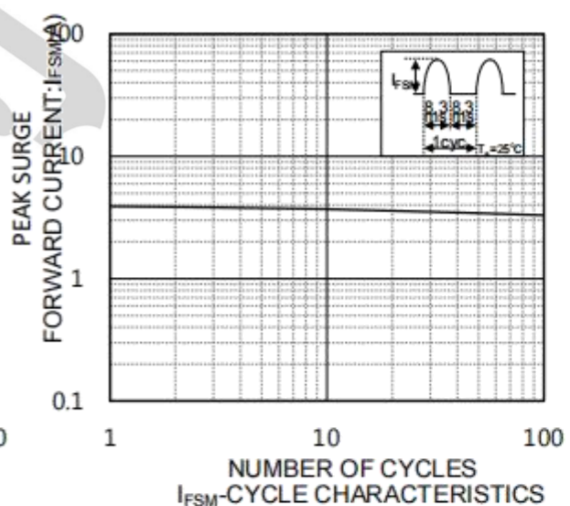
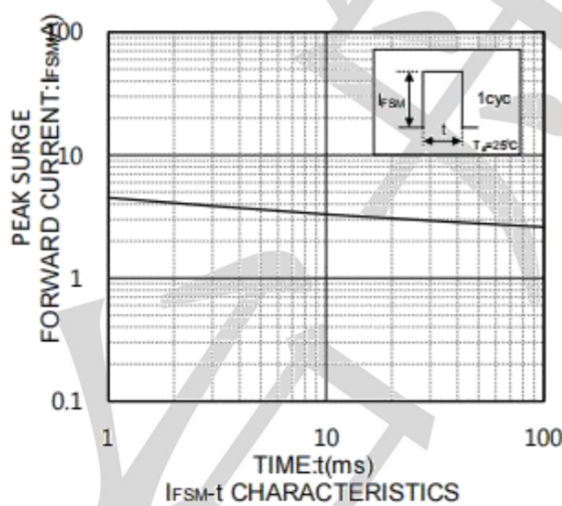
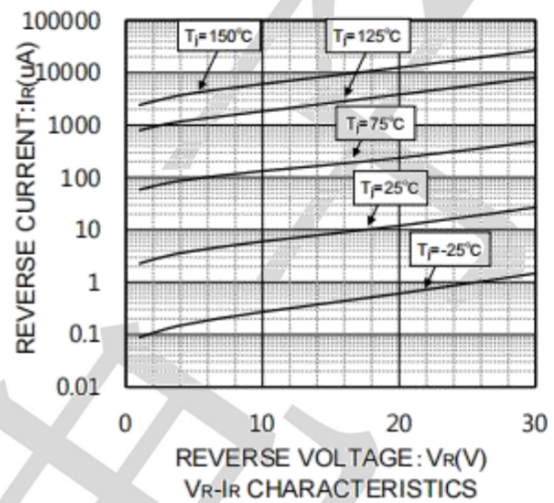
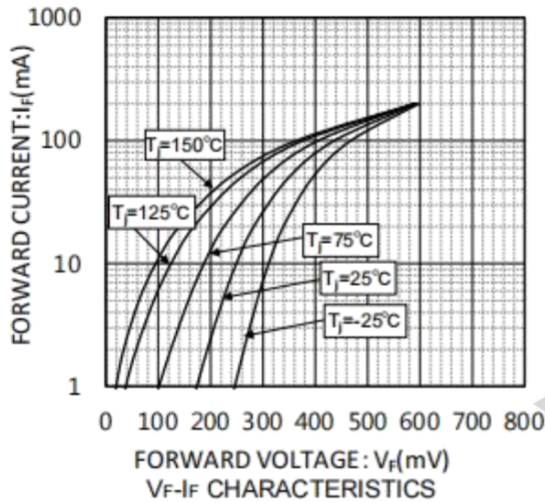
Mounted onto a 4 in square FR-4 board 10 mm sq. 1 oz. Cu 0.06" thick single sided. Operating to steady state.

### Electrical Characteristics (TA=25°C unless otherwise specified)

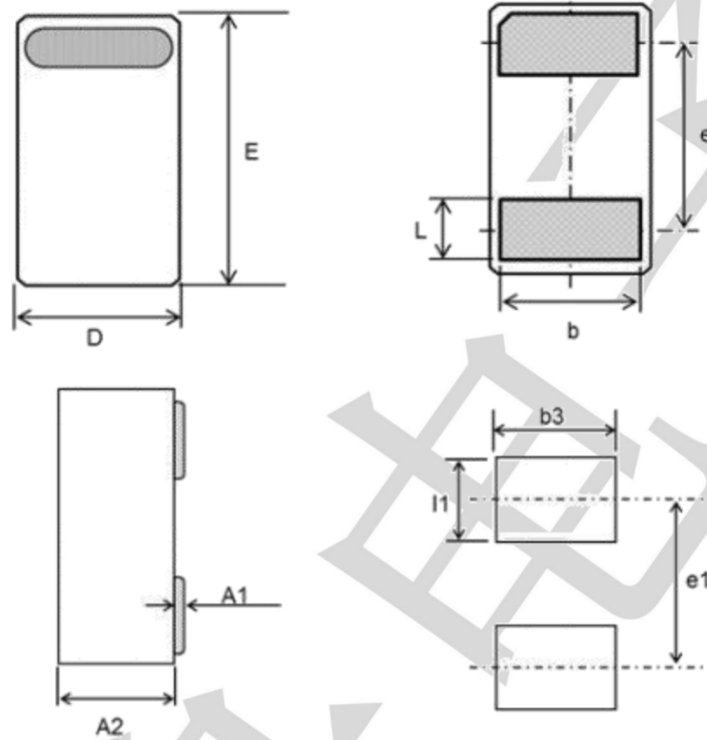
Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Forward Voltage	$V_F^*$	--	--	0.31	V	$I_F=10\text{mA}$
		--	--	0.52	V	$I_F=200\text{mA}$
Reverse Leakage	$I_R^{**}$	--	--	15	uA	$V_R = 10\text{V}$
		--	--	100	uA	$V_R = 30\text{V}$
Total Capacitance	$C_T$	--	10	--	pF	$V_R = 5.0\text{V}, f = 1\text{MHz}$

\*Pulse width  $\leq 380\text{uS}$ , Duty cycle  $< 2\%$ ; \*\*pulse test,  $t_p \leq 5\text{ms}$

Typical Electrical Characteristic Curves



Outline Drawing - CSP0201



DIM	Millimeters			Inches		
	Min.	Average	Max.	Min.	Average	Max.
A1	0.000	-	0.010	0.000	-	0.000
A2	0.270	0.280	0.290	0.011	0.011	0.011
b	0.230	0.240	0.250	0.009	0.009	0.010
D	0.290	0.300	0.310	0.011	0.012	0.012
E	0.590	0.600	0.610	0.023	0.024	0.024
L	0.130	0.140	0.150	0.005	0.006	0.006
e	0.390	0.400	0.410	0.015	0.016	0.016
l1	-	0.230	-	-	0.009	-
b3	-	0.310	-	-	0.012	-
e1	-	0.380	-	-	0.015	-

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