

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)
- Ultra-Small Surface Mount Package
- High Reliability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisure Sensitivity Level 1
- Halogen Free. "Green" Device (Note 1)
- Low Forward Voltage
- Low Leakage Current

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +125°C
- Thermal Resistance(Note2): 333C/W Junction to Ambient

MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
CSP522S-30DP	30V	21V	30V

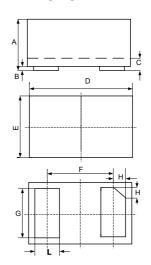
Electrical Characteristics @ 25°C Unless Otherwise Specifie

Forward Continuous Current	I _{F(AV)}	100mA	
Peak Forward Surge Current	I _{FSM}	500mA	8.3ms,Half Since
Power Dissipation	P _d	300mW	
Maximum Instantaneous Forward Voltage	V _F	0.45V 0.65V	I _F =10.0mA I _F =100mA
Max Reverse Current	I _R	0.3uA 5.0uA	V _R =10V V _R =30V
Min Reverse Breakdown Voltage	V _(BR)	30V	I _R =50μA
Typ Junction Capacitance	Сл	15pF	V _R =0V, f =1MHZ
Typ Reverse Recovery Time	t _{rr}	5ns	$I_F=I_R=10\text{mA}, I_{rr}=0.1I_R,$ $R_L=100\Omega$

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds. Note: 2. Part mounted on FR-4 board with recommended pad layout.

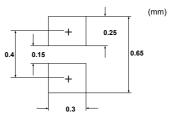
100mA Schottky Barrier Rectifier 30 Volts

0201-A



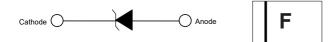
DIMENSIONS							
DIM	INCHES		MM		NOTE		
DIIVI	MIN	MAX	MIN	MAX	NOTE		
Α	0.009	0.013	0.23	0.33			
В	0.000	0.002	0.00	0.05			
С	0.005	0.007	0.12	0.18			
D	0.022	0.026	0.55	0.65			
E	0.010	0.014	0.25	0.35			
F	0.014		0.355		TYP.		
G	0.008	0.011	0.22	0.28			
Н	0.003		0.079		TYP.		
L	0.006	0.009	0.16	0.22			

SUGGESTED SOLDER PAD LAYOUT





Internal Structure and Marking Code



Curve Characteristics

Fig. 1 - Typical Instantaneous Forward Characteristics

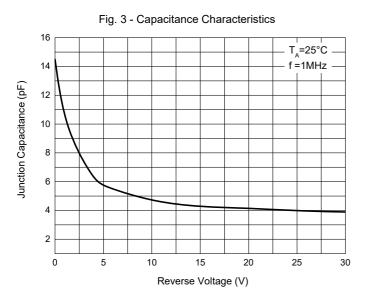
T_A=100°C

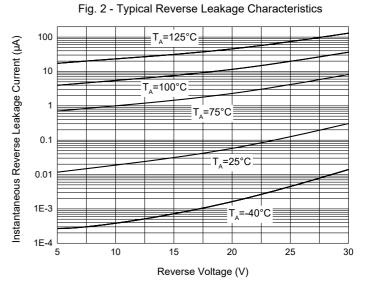
T_A=125°C

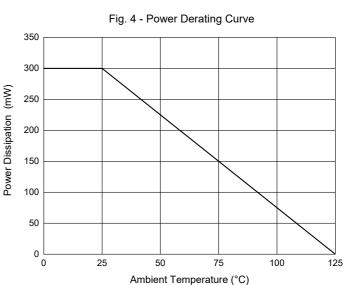
T_A=75°C

T_A=40°C

Instantaneous Forward Voltage (V)









Ordering Information

Device	Packing	
Part Number-TP	Tape&Reel10Kpcs/Reel	

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