

SOD-882 Plastic PackageFast Switching Diode

Absolute Maximum Ratings T_A = 25°C unless otherwise noted

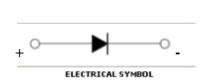
Symbol	Parameter	Value	Units
P _D	Power Dissipation	125	mW
T _{STG}	Storage Temperature Range	-55 to +125	°C
TJ	Operating Junction Temperature	+125	°C
V _{RRM}	Repetitive Peak Reverse Voltage	100	V
V _R	DC Reverse Voltage	75	V
lo	Average Forward Current	150	mA
I _{FSM}	Non-repetitive Peak Forward Surge Current (Pulse Width=1us)	2	А

These ratings are limiting values above which the serviceability of the diode may be impaired.

Green Product



SOD882 Package



Specification Features:

- § High Speed Switching (T_{RR} <4.0 nS)
- § Small Surface Mounting Type (DFN1006)
- RoHS Compliant
- § Green EMC
- Matte Tin(Sn) Lead Finish
- § Band Indicates Cathode
- **§** Weight: approx. 0.001g

DEVICE MARKING CODES:

Device Type	Marking	Shipping
CDSQR4148	S3	10,000/Tape & Reel

Electrical Characteristics $T_A = 25^{\circ}C$ unless otherwise noted

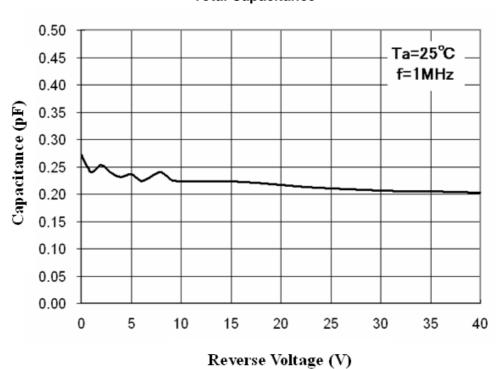
Symbol	Parameter	Test Condition	Limits		Unit	
	Farameter	rest Condition	Min	Max	Unit	
Ву	Breakdown Voltage	I _R =100μA	100		Volts	
		I _R =5µA	75		VOIIS	
I _R	Reverse Leakage Current	V _R =20V		25	nA	
		V _R =75V		5	μΑ	
V _F	Forward Voltage	I _F =10mA		1.0	Volts	
T _{RR}	Reverse Recovery Time	$I_F=10mA$, $I_R=60mA$, $R_L=100\Omega$, $I_{RR}=1mA$		4	nS	
С	Capacitance	$V_R=0V$, $f=1M_{HZ}$		4	pF	

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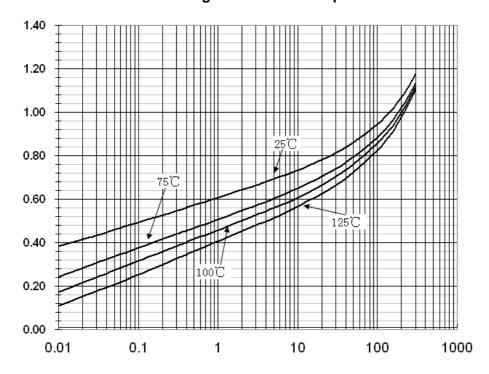


Typical Performance Characteristics

Total Capacitance



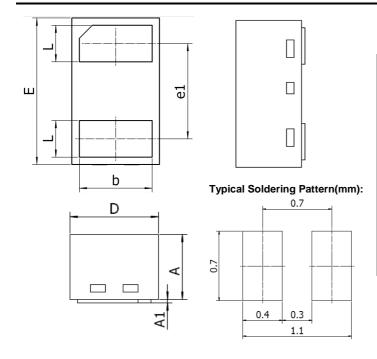
Forward Voltage vs Ambient Temperature







SOD882 Package Outline



DIM	MILLIMETERS		INCHES		
	MIN	MAX	MIN	MAX	
А	0.46	0.50	0.018	0.020	
A1		0.03		0.001	
b	0.45	0.55	0.018	0.022	
D	0.55	0.65	0.022	0.026	
Е	0.95	1.05	0.037	0.041	
e1	Тур. 0.65		Тур. 0.026		
L	0.20	0.30	0.008	0.012	



NOTICE

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The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Tak Cheong Semiconductor Co., Ltd., or anyone on its behalf, assumes no responsibility or liability for any damagers resulting from such improper use of sale.

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