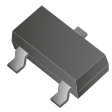
CDSH3-21-G

Voltage: 200 Volts
Current: 200 mA
RoHS Device



Features

-Fast switching speed.

-For general purpose switching applications.

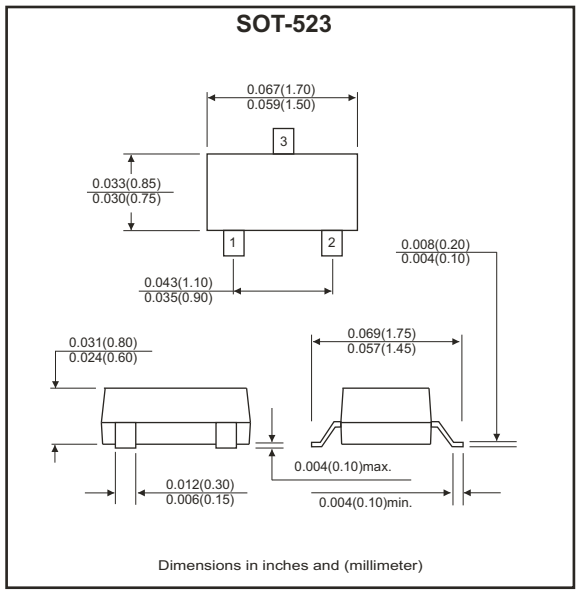
-High conductance.

Mechanical data

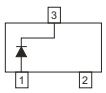
-Case: SOT-523, molded plastic.

-Terminals: Solder plated, solderable per MIL-STD-202E, method 208C.

-Weight: 0.002 grams approx.



Circuit Diagram



CDSH3-21-G
Marking: T3

Maximum Ratings (at TA=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Peak repetitive peak reverse voltage Working peak reverse voltage DC blocking voltage	V_{RRM} V_{RWM} V_R	200	V
Forward continuous current	I_{FM}	400	mA
Averaged rectified output current	I_O	200	mA
Non-repetitive Peak forward surge current @TP=1.0μS @TP=1.0S	I_{FSM}	2.5 0.5	A
Power dissipation	P_D	150	mW
Thermal resistance, junction to ambient air	$R_{\theta JA}$	833	°C/W
Operating junction temperature	T_J	150	°C
Storage temperature range	T_{STG}	-65 to +150	°C

Electrical Ratings (at TA=25°C unless otherwise noted)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Reverse breakdown voltage	V_{BR}	I_R=100μA	200			V
Forward voltage	V_{F1}	I_F=100mA			1	V
	V_{F2}	I_F=200mA			1.25	V
Reverse current	I_R	V_R=200V			100	nA
Capacitance between terminals	C_T	V_R=0V, f=1MHz			5	pF
Reverse recovery time	T_{rr}	I_F=I_R=30mA, I_{RR}=0.1I_R, R_L=100Ω			50	nS

REV:A

Rating and Characteristic Curves (CDSH3-21-G)

Fig.1 - Forward Characteristics

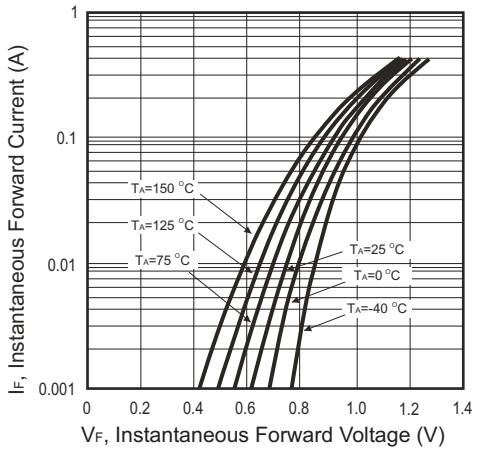


Fig.2 - Reverse Characteristics

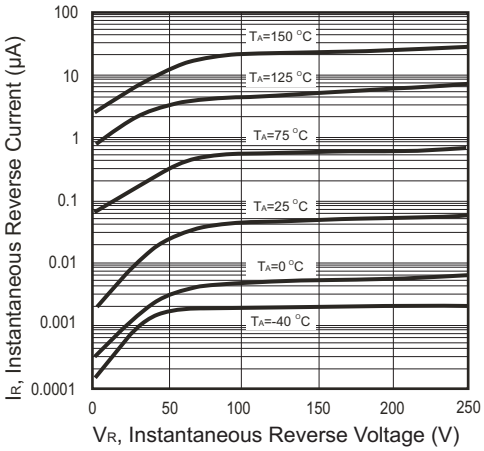


Fig.3 - Capacitance Between Terminals Characteristics

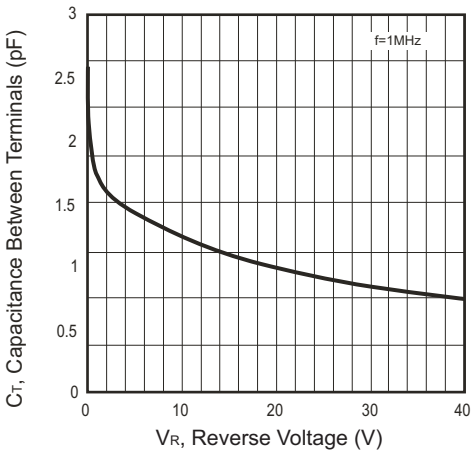


Fig.4 - Power Derating Curve