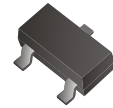


CDSH3-21-G

Voltage: 200 Volts

Current: 200 mA

RoHS Device



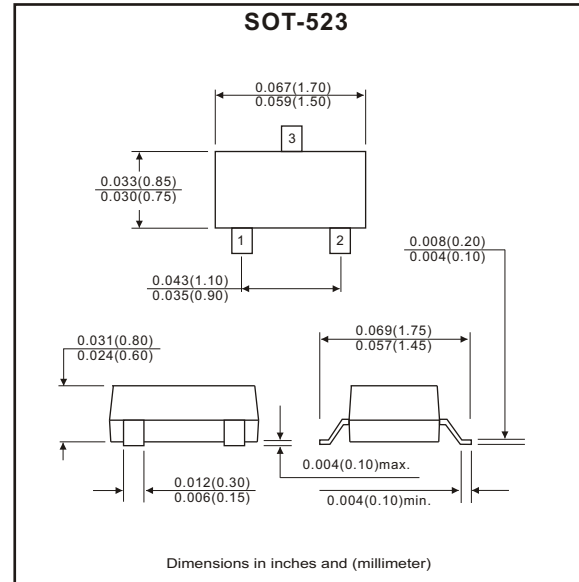
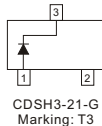
Features

- 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



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

Parameter	Symbol	Value	Unit
Peak repetitive peak reverse voltage	V_{RRM}		
Working peak reverse voltage	V_{RWM}	200	V
DC blocking voltage	V_R		
Forward continuous current	I_{FM}	400	mA
Averaged rectified output current	I_o	200	mA
Non-repetitive Peak forward surge current	I_{FSM}	2.5 0.5	A
		@TP=1.0μS @TP=1.0S	
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 @TA=25°C unless otherwise noted.

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Reverse breakdown voltage	V_{BR}	$I_R=100\mu A$	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}	$I_F=I_R=30mA, I_{RR}=0.1I_R, R_L=100\Omega$			50	nS

Rating and Characteristic Curves (CDSH3-21-G)

Fig.1 Forward Characteristics

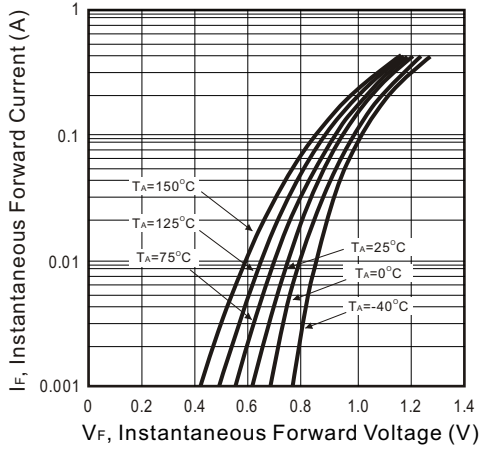


Fig.2 Reverse Characteristics

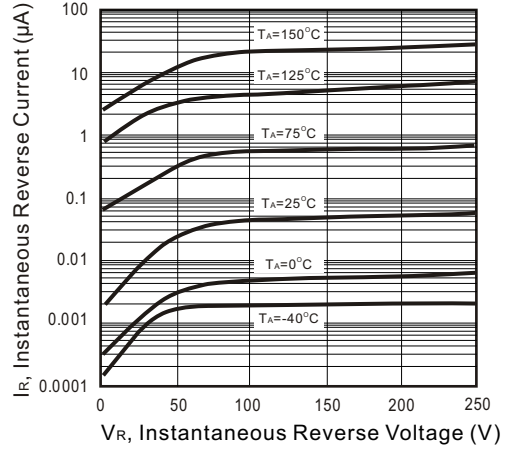


Fig.3 Capacitance Between Terminals Characteristics

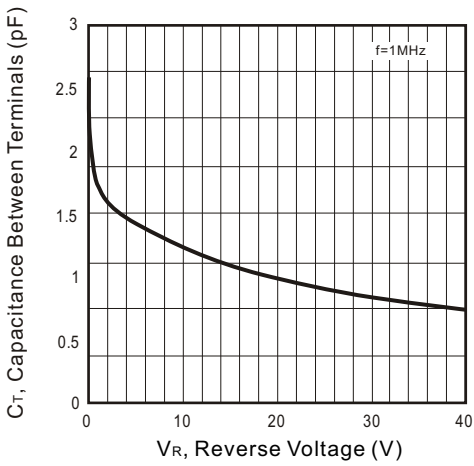


Fig.4 Power Derating Curve

