

SMD Switching Diode



SMD Diodes Specialist

CDSH516-G

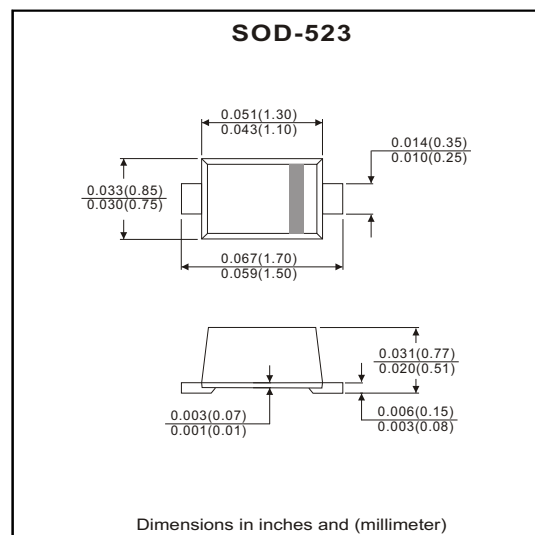
RoHS Device



Features

- Small surface mount type.
- High switching speed.

Marking: 61



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

Parameter	Symbol	Value	Unit
DC reverse voltage	V_R	75	V
Mean rectifying current	I_O	250	mA
Peak forward surge current	I_{FSM}	0.5	A
Junction temperature	T_J	150	°C
Storage temperature	T_{STG}	-65 to +150	°C

Electrical Characteristics (at Ta=25°C unless otherwise noted)

Parameter	Symbol	Conditions	Min	Typ.	Max	Unit
Forward voltage	V_F	$I_F=1\text{mA}$			0.715	V
		$I_F=10\text{mA}$			0.855	
		$I_F=50\text{mA}$			1.0	
		$I_F=150\text{mA}$			1.25	
Reverse current	I_R	$V_R=25\text{V}$			0.03	μA
		$V_R=75\text{V}$			1.0	
Capacitance between terminals	C_T	$V_R=0\text{V}$, $f=1\text{MHz}$			1.0	pF
Reverse recovery time	t_{rr}	$I_F=10\text{mA}$, $R_L=100\Omega$			4.0	nS

RATING AND CHARACTERISTIC CURVES (CDSH516-G)

Fig.1 Maximum Continuous Forward Current vs. Solder Point Temperature

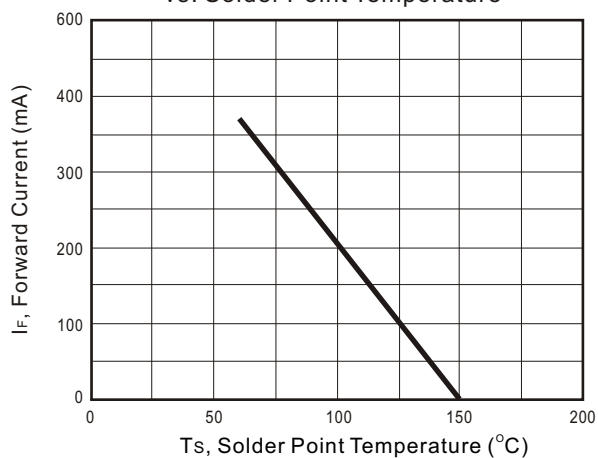


Fig.2 Forward Characteristics

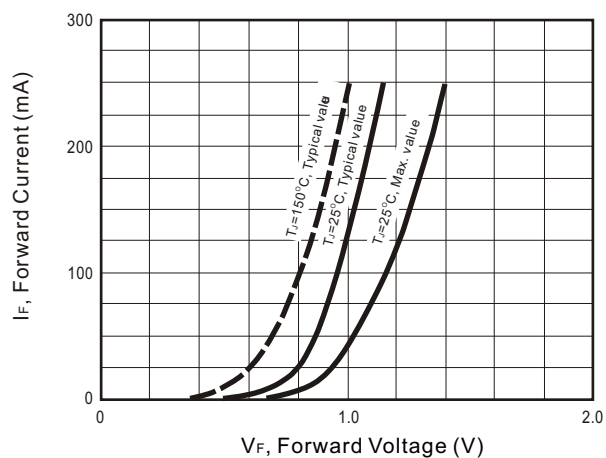


Fig.3 Maximum Non-repetitive Peak Forward Surge Current

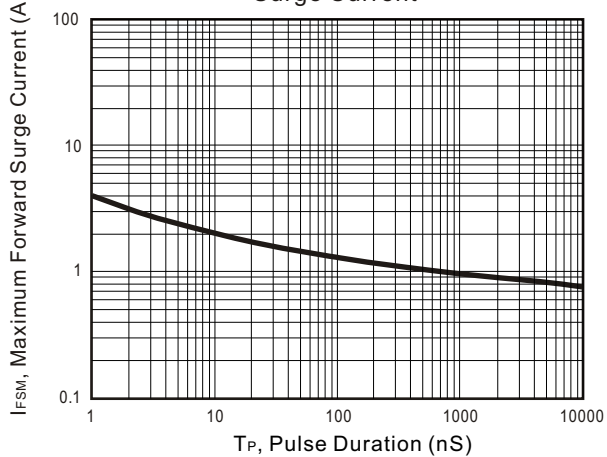


Fig.4 Reverse Current vs. Junction Temperature

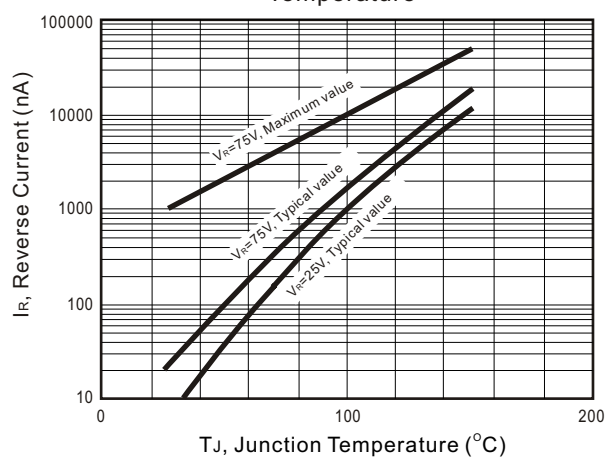


Fig.5 Diode Capacitance Characteristics

