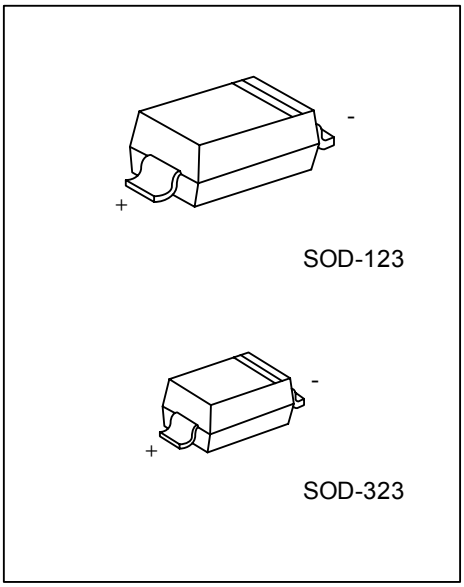
SD106WS

schottky diode

SCHOTTKY DIODES



*Pb-free plating product number: SD106WSL

■ FEATURES

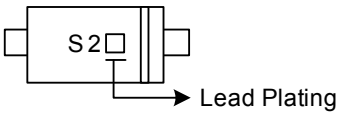
* Low turn-on Voltage Vd
* Built –in PN Junction Guard Ring

■ ORDERING INFORMATION

Order Number		Package	Packing
Normal	Lead Free Plating		
SD106WS-CA2-R	SD106WSL-CA2-R	SOD-123	Tape Reel
SD106WS-CB2-R	SD106WSL-CB2-R	SOD-323	Tape Reel

SD106WSL-CA2-R (1)Packing Type (2)Package Type (3)Lead Plating	(1) R: Tape Reel (2) CA2: SOD-123, CB2: SOD-323 (3) L: Lead Free Plating Blank: Pb/Sn

■ MARKING



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■ ABSOLUTE MAXIMUM RATINGS (Single Diode @T_A=25℃)

PARAMETER	SYMBOL	RATINGS	UNIT
Maximum non-repetitive Peak Reverse Voltage	V_{RM}	30	V
Peak Forward Current	I_{FM}	200	mA
Non-repetitive Peak Forward Surge Current @ t_p=10ms	I_{FSM}	1	A
Power Dissipation	P_D	250	mW
Junction Temperature	T_J	150	℃
Storage Temperature	T_{STG}	-65~+150	℃

Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged.
Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ THERMAL DATA

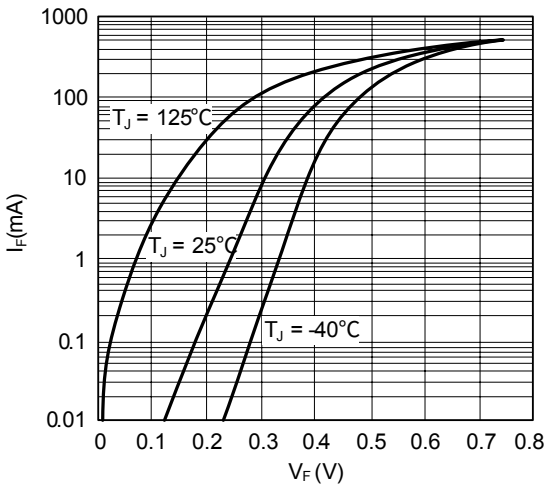
PARAMETER	SYMBOL	RATINGS	UNIT
Thermal Resistance Junction to Ambient	θ_{JA}	500	℃/W

■ ELECTRICAL CHARACTERISTICS (T_A=25℃)

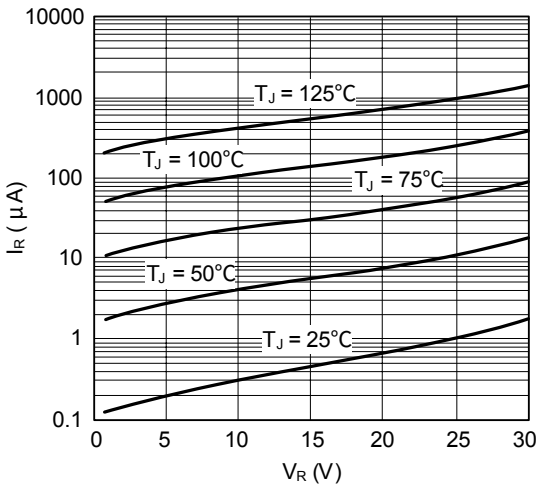
PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage	V_F	I_F=2mA		260		mV
		I_F=15mA		320		mV
		I_F=100mA		420		mV
		I_F=200mA		490	550	mV
Reverse Breakdown Voltage	BV_R	I_R=100μA	30			V
Peak Reverse Leakage Current	I_R	V_R=30V			5	μA
Typical Junction Capacitance	C_T	V_R=10V, f=1MHz		50	15	pF

■ TYPICAL CHARACTERISTICS

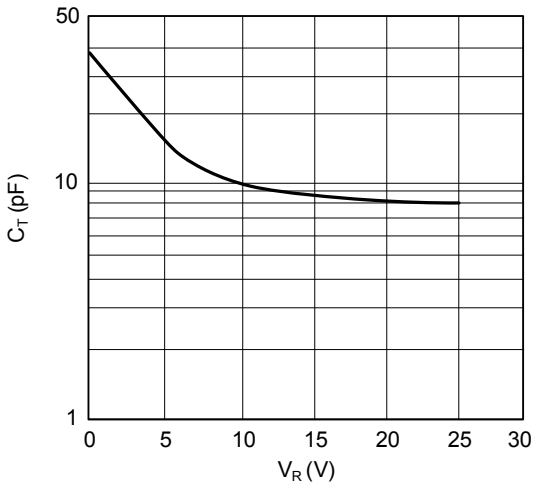
Forward Characteristics



Reverse Characteristics



Capacitance C_{IN} vs. Reverse Voltage V_R



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