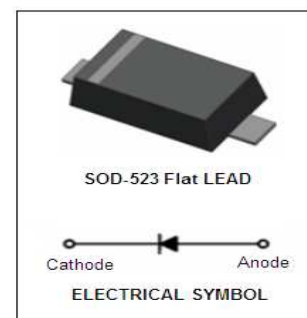


Features :

- Low Forward Voltage Drop;
- Guard Ring Construction for Transient Protection;
- Low Reverse Recover Time;
- Low Reverse Capacitance;

Marking: S4



MAXIMUM RATINGS (Ta=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Peak Repetitive Peak Reverse Voltage	V_{RRM}	40	V
Working Peak Reverse Voltage	V_{RWM}		
DC Blocking Voltage	V_R		
RMS Reverse Voltage	$V_{R(RMS)}$	28	V
Forward Continuous current	I_0	350	mA
Repetitive Peak Forward Current @t≤1S	I_{FRM}	1	A
Non- Repetitive Peak Forward Surge Current @t≤8.3mS Half Sine Wave	I_{FSM}	15	A
Power Dissipation	P_d	150	mW
Thermal Resistance Junction To Ambient	$R_{\theta JA}$	667	°C/mW
Junction Temperature	Tstg	125	°C
Storage Temperature	Tstg	-55~150	°C

ELECTRICAL CHARACTERISTICS (Ta=25°C)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse Voltage	$V_{(BR)}$	$I_R=100 \mu A$	40			V
Reverse current	I_R	$V_R=30V$			5	u A
		$V_R=20V$			2	
		$V_R=30V$			5	
Forward Voltage	V_F	$I_F=1mA$		0.27		V
		$I_F=5mA$		0.32		
		$I_F=20mA$			0.37	
		$I_F=200mA$			0.6	
Diode Capacitance	C_D	$V_R=4V, f=1.0MHz$		50		pF
Recover Reverse Time	t_{rr}	$I_F=I_R=200mA, I_{rr}=0.1 \times I_R, R_L=100 \Omega$		10		nS

典型特性曲线图

