Elektronische Bauelemente

SCS422S

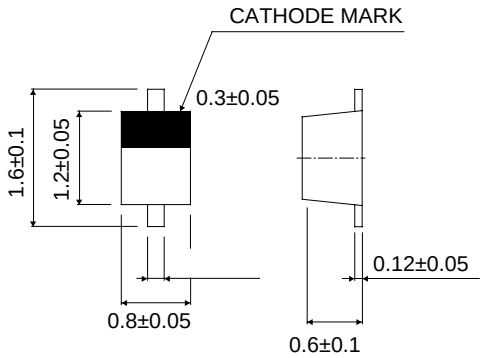
High Speed Switching Diodes

Plastic-Encapsulate Diodes

RoHS Compliant Product

A suffix of "-C" specifies halogen & lead-free

SOD-523



Dimensions in millimeters

FEATURES

- High Speed
- High Reliabilty With High Surge Current Handing Capability
- Small Surface Mounting Type

Marking: 6

Maximum Ratings and Electrical Characteristics, Single Diode @T_A= 25℃

Parameter	Symbol	Limits	Unit
Peak reverse voltage	V_{RM}	100	V
DC reverse voltage	V_R	85	V
Peak forward current	I_{FM}	500	mA
Mean rectifying current	I_O	150	mA
Junction temperature	T_j	125	℃
Storage temperature	T_{stg}	-55~+125	℃

Electrical Ratings @T_A= 25℃

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F			1.2	V	I_F=150mA
Reverse current	I_R			0.1	μA	V_R=85V
Capacitance between terminals	C_T			3.0	pF	V_R=0.5V, f=1MHZ
Reverse recovery time	t_{rr}			4	ns	V_R=6V,I_F=10mA,R_L=100Ω

● **Electrical characteristic curves** (Ta=25°C)

FIG. 1 - SURGE CURRENT CHARACTERISTICS

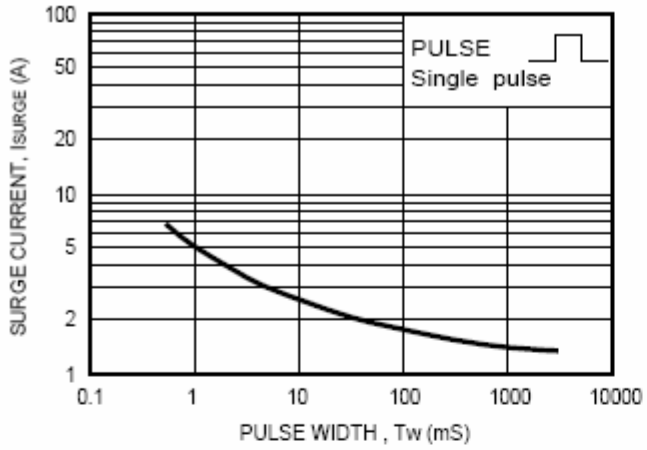


FIG. 2 - FORWARD CHARACTERISTICS

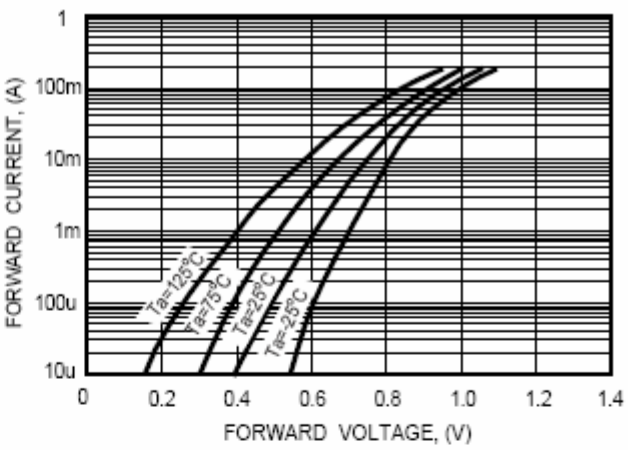


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

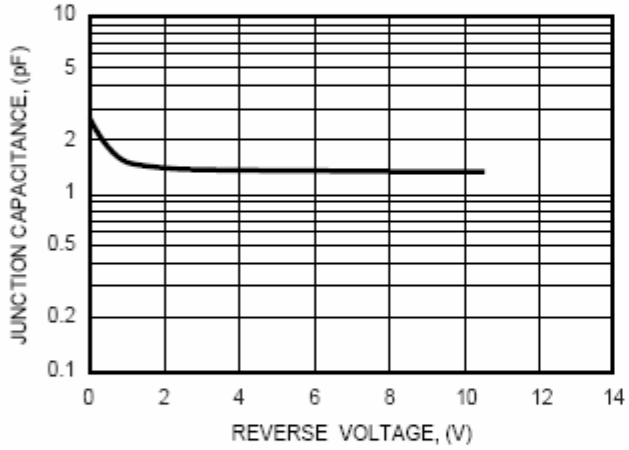


FIG. 4 - REVERSE CHARACTERISTICS

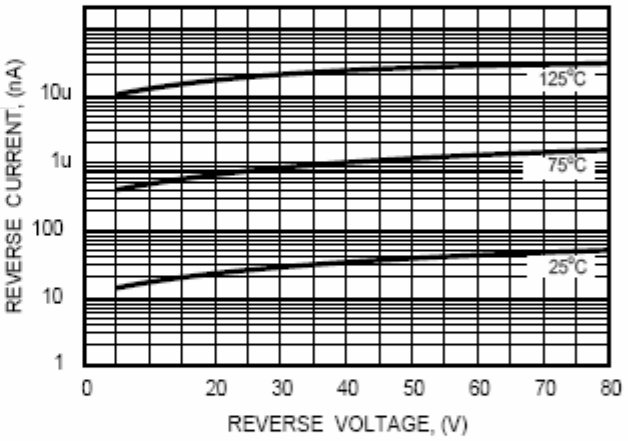


FIG. 5 - REVERSE RECOVERY TIME

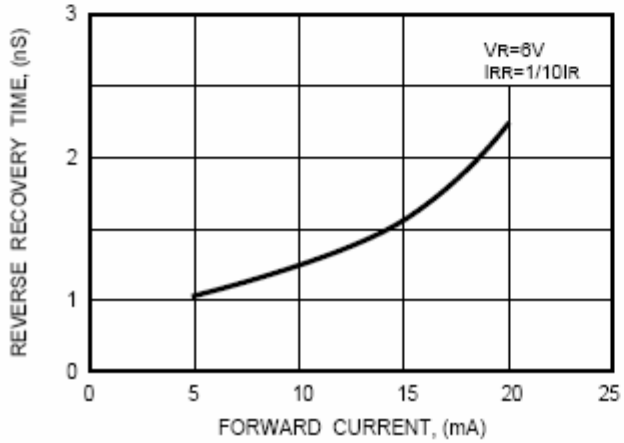


FIG. 6 - REVERSE RECOVERY TIME MEASUREMENT CIRCUIT