

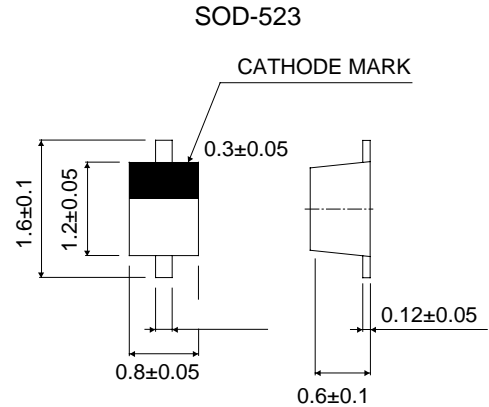
RoHS Compliant Product

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

FEATURES

- High Speed
- High Reliability With High Surge Current Handling Capability
- Small Surface Mounting Type

Marking: 6



Maximum Ratings and Electrical Characteristics, Single Diode @ $T_A=25^\circ\text{C}$

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	$^\circ\text{C}$
Storage temperature	T_{stg}	-55~+125	$^\circ\text{C}$

Electrical Ratings @ $T_A=25^\circ\text{C}$

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

●Electrical characteristic curves (Ta=25°C)

FIG. 1 - SURGE CURRENT CHARACTERISTICS

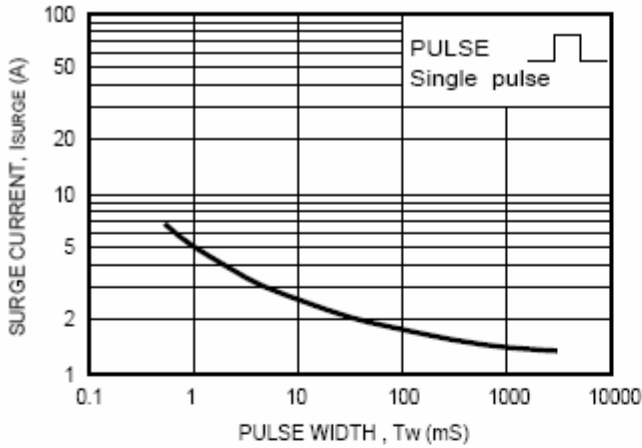


FIG. 2 - FORWARD CHARACTERISTICS

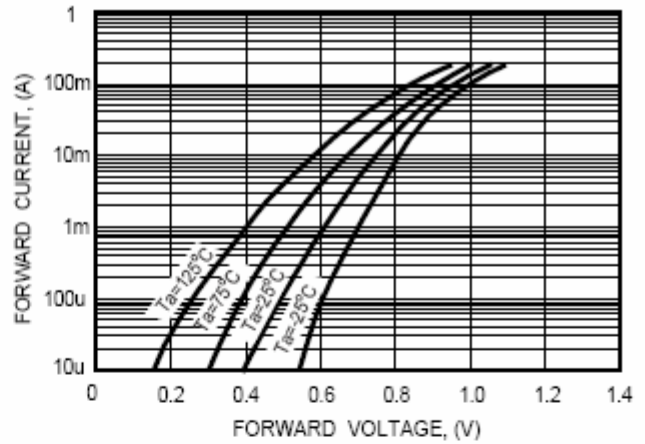


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

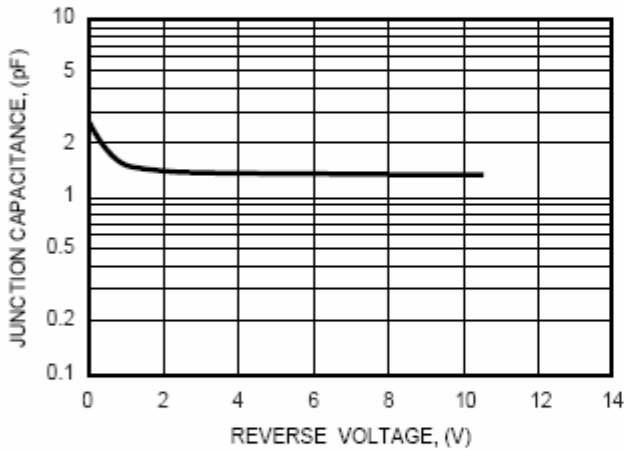


FIG. 4 - REVERSE CHARACTERISTICS

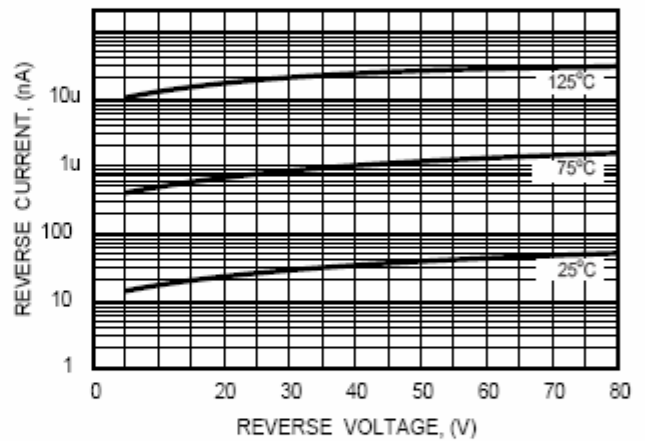


FIG. 5 - REVERSE RECOVERY TIME

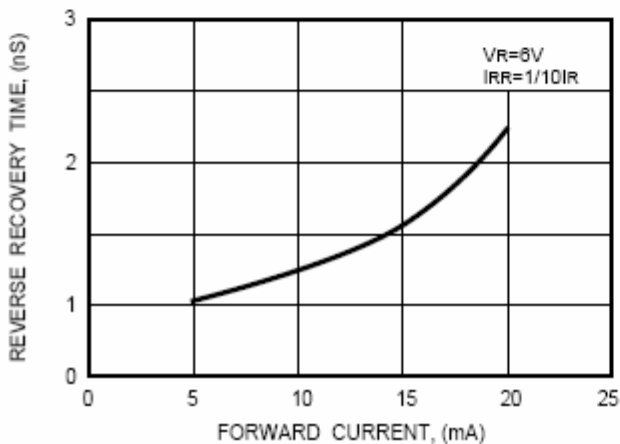


FIG. 6 - REVERSE RECOVERY TIME MEASUREMENT CIRCUIT

