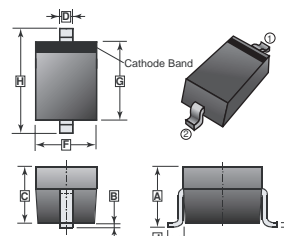


RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Low Forward Voltage Drop
- Guard Ring Die Construction for Transient Protection
- Ideal for Low Logic Level Applications
- Low Capacitance
- Also Available in Lead Free Version

SOD-323



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.05	REF.	E	0.080	0.180
B	0.20	REF.	F	1.15	1.45
C	0.80	1.00	G	1.60	1.80
D	0.25	0.40	H	2.30	2.70

MARKING : SG

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS at T_A = 25°C

PARAMETER	SYMBOL	RATINGS	UNIT
Non-Repetitive Peak reverse voltage	V _{RM}	30	V
Forward Current	I _{FM}	100	mA
Forward Surge Current (t _p =10ms)	I _{FSM}	750	mA
Power Dissipation (T _C =25°C)	P _{TOT}	250	mW
Thermal Resistance Junction to Ambient Air	T _{θJA}	500	°C/W
Junction, Storage Temperature	T _J , T _{STG}	150, -65~150	°C

ELECTRICAL RATING at T_A = 25°C

PARAMETERS	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITIONS
Reverse Breakdown Voltage	V _R	30			V	I _R = 100µA
Forward Voltage	V _F		300		mV	I _F = 2mA
			360			I _F = 15mA
			470	550		I _F = 50mA
			580	800		I _F = 100mA
Reverse Current	I _R			1	µA	V _R = 25V
Capacitance between terminals	C _T		7		pF	V _R = 10V, f = 1MHZ

RATINGS AND CHARACTERISTIC CURVES

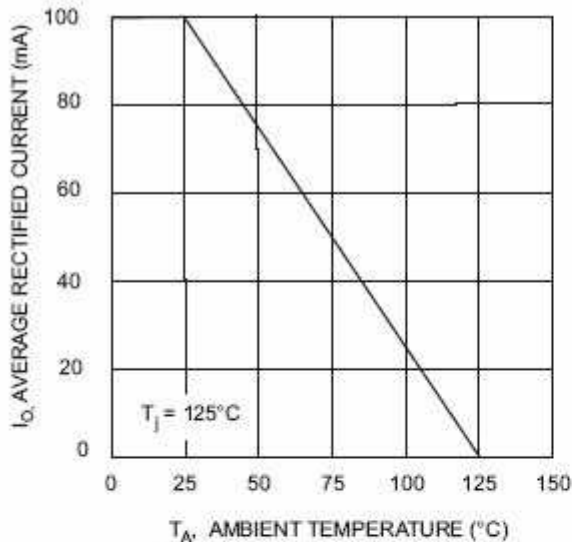


Fig. 1 Forward Current Derating Curve

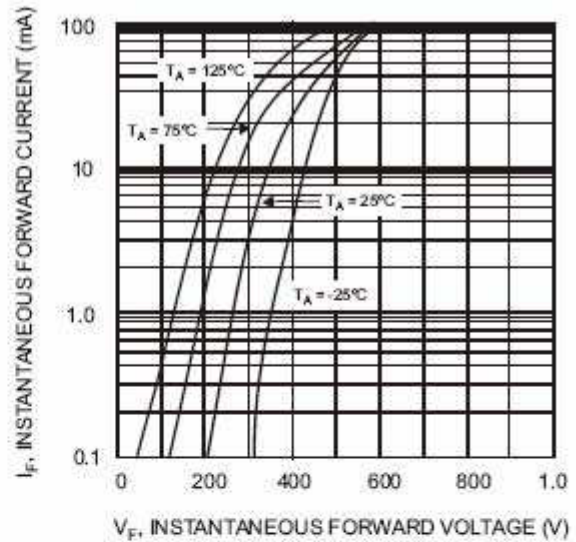


Fig. 2 Typical Forward Characteristics

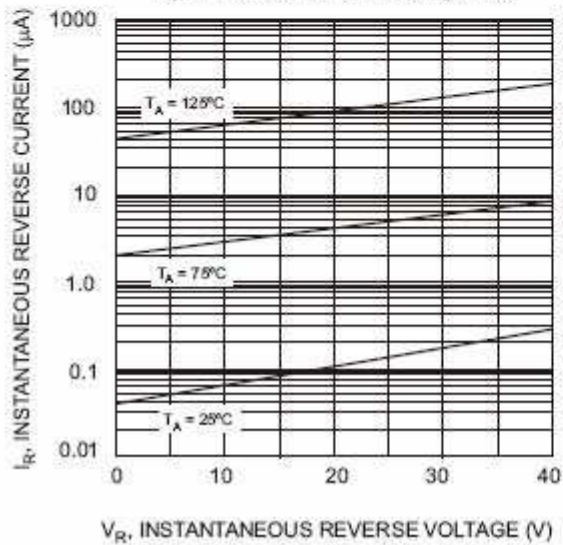


Fig. 3 Typical Reverse Characteristics

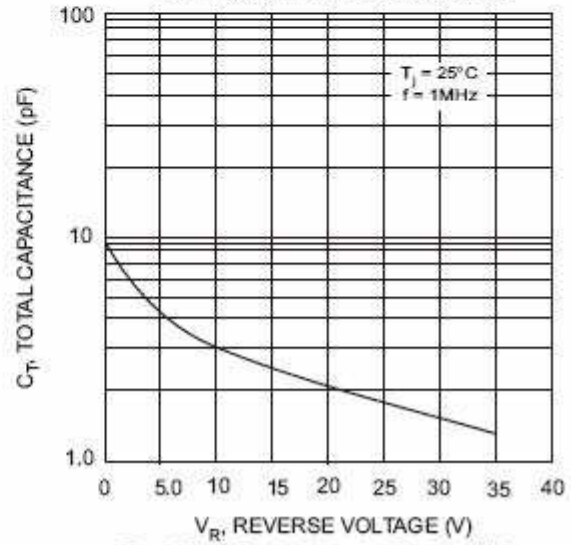


Fig. 4 Total Capacitance vs. Reverse Voltage