

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

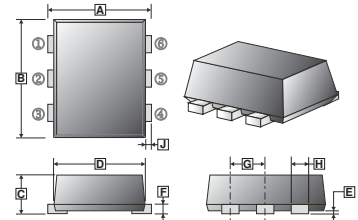
SOT-563

FEATURES

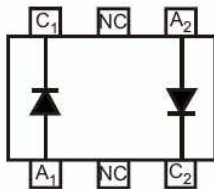
- ◆ Low Forward Voltage Drop
- ◆ Fast Switching

MARKING

KAN



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.50	1.70	F	0.09	0.16
B	1.50	1.70	G	0.45	0.55
C	0.525	0.60	H	0.17	0.27
D	1.10	1.30	J	0.10	0.30
E	-	0.05			



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwise specified.

TYPE NUMBER	SYMBOL	VALUE	UNIT
Non-Repetitive Peak Reverse Voltage	V_{RM}	40	V
DC Blocking Voltage	V_R	40	V
Average Rectified Output Current	I_O	200	mA
Power Dissipation	P_D	150	mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	833	°C/W
Junction & Storage Temperature	T_J, T_{STG}	-55~125, -65~150	°C

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	MIN	MAX	UNIT	TEST CONDITION
Reverse Breakdown Voltage	$V_{(BR)}$	40		V	$I_R = 10\mu A$
Reverse Voltage Leakage Current	I_R		200	nA	$V_R = 30V$
Forward Voltage	V_F		380	mV	$I_F = 1mA$
			1000	mV	$I_F = 40mA$
Total Capacitance	C_T		5	pF	$V_R = 0, f = 1MHz$
Reverse Recovery Time	t_{rr}		5	nS	$I_F = 10mA, I_R = I_F = 1mA, R_L = 100\Omega$

RATINGS AND CHARACTERISTIC CURVES

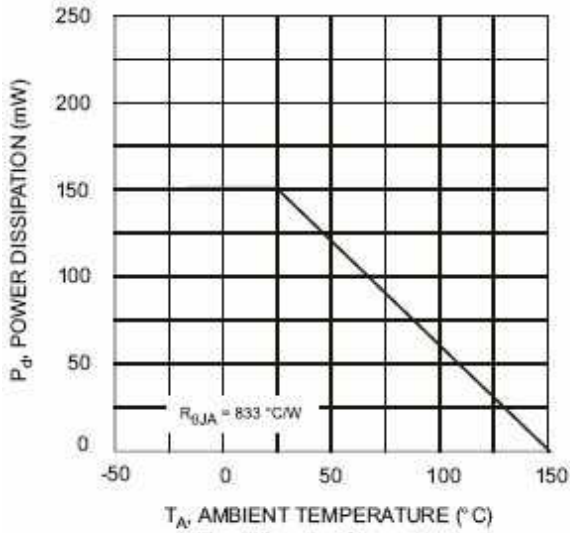


Fig. 1, Derating Curve - Total

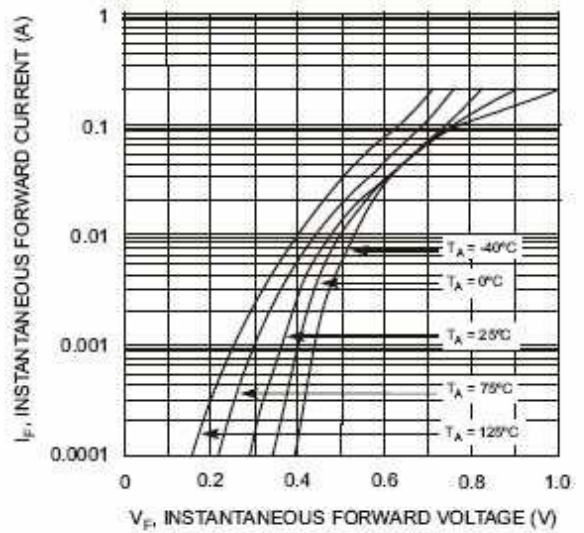


Fig. 2 Typical Forward Voltage

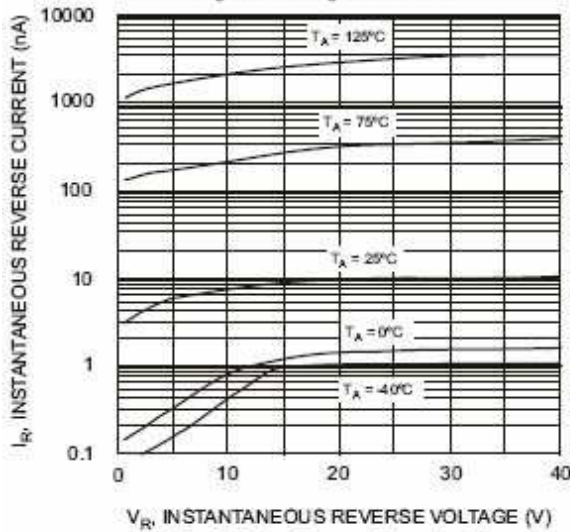


Fig. 3 Typical Reverse Characteristics

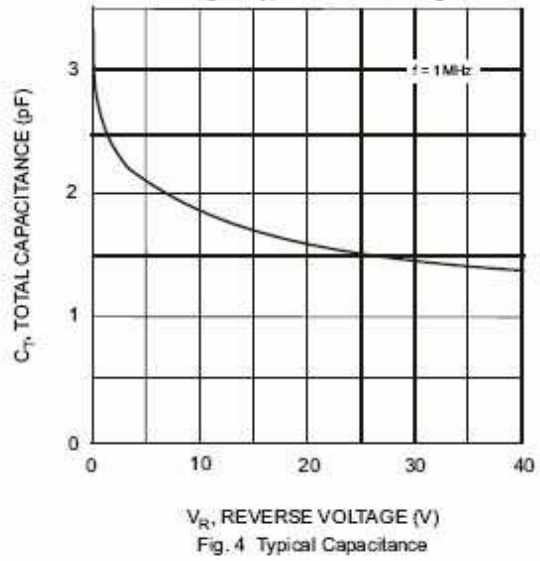


Fig. 4 Typical Capacitance