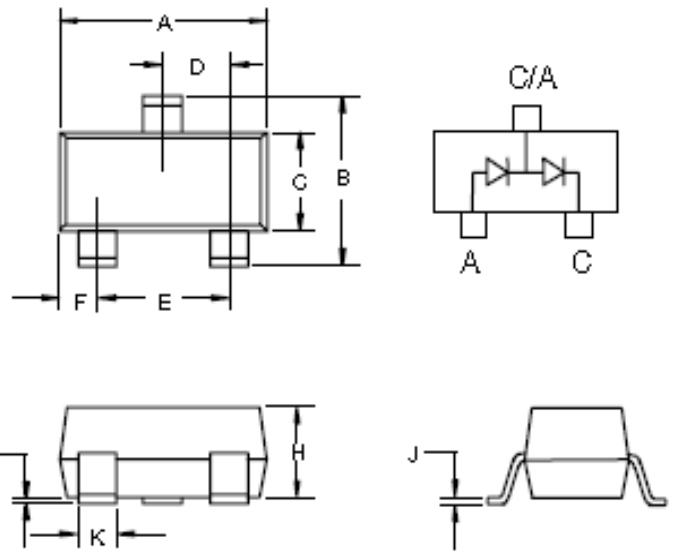


SWITCHING DIODE
SOT-23
FEATURES

- Low Current Leakage
- Low Cost
- Small Outline Surface Mount Package
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1
- Marking:A7/JG

MAXIMUM RATINGS

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +151°C
- Maximum Thermal Resistance; 357K/W Junction To Ambient



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.110	.120	2.80	3.04	
B	.083	.098	2.10	2.64	
C	.047	.055	1.20	1.40	
D	.035	.041	.89	1.03	
E	.070	.081	1.78	2.05	
F	.018	.024	.45	.60	
G	.0005	.0039	.013	.100	
H	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	

Electrical Characteristics @ 25 °C Unless Otherwise Specified

Parameter	Symbol	Limits	Test conditions	Unit
Reverse Voltage	V_R	70		V
Average Rectified Output Current	I_O	200		mA
Power Dissipation	P_{TOT}	350		mW
Peak Forward Surge Current	I_{FSM}	1.0	$t=1s, \text{Non-Repertitive}$	A
		2.0	$t=1\mu s, \text{Non-Repertitive}$	A
Maximum Instantaneous Forward Voltage	V_F^*	715	$I_{FM}=1mA$	mV
		855	$I_{FM}=10mA$	
		1000	$I_{FM}=50mA$	
		1250	$I_{FM}=150mA$	
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	2.5	$V_R=75Volts \quad T_J = 25^\circ C$	μA
		50	$V_R=75Volts \quad T_J = 150^\circ C$	
		30	$V_R=25Volts \quad T_J = 150^\circ C$	
Typical Junction Capacitance	C_J	2	Measured at 1.0MHz, $V_R=0V$	pF
Reverse Recovery Time	t_{rr}	6	$I_F=10mA, I_{rr}=1mA \quad R_L=100\Omega$	nS

*Pulse test: Pulse width 300 sec, Duty cycle 2%

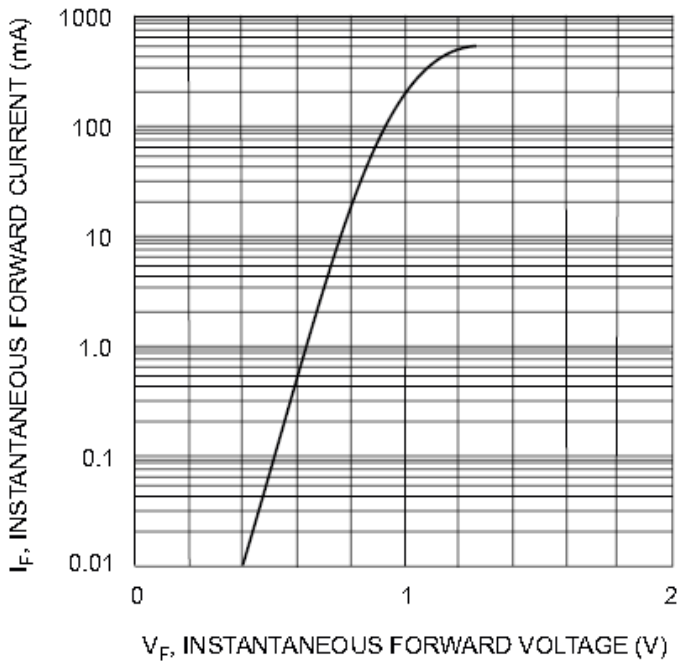


Fig. 1 Forward Characteristics

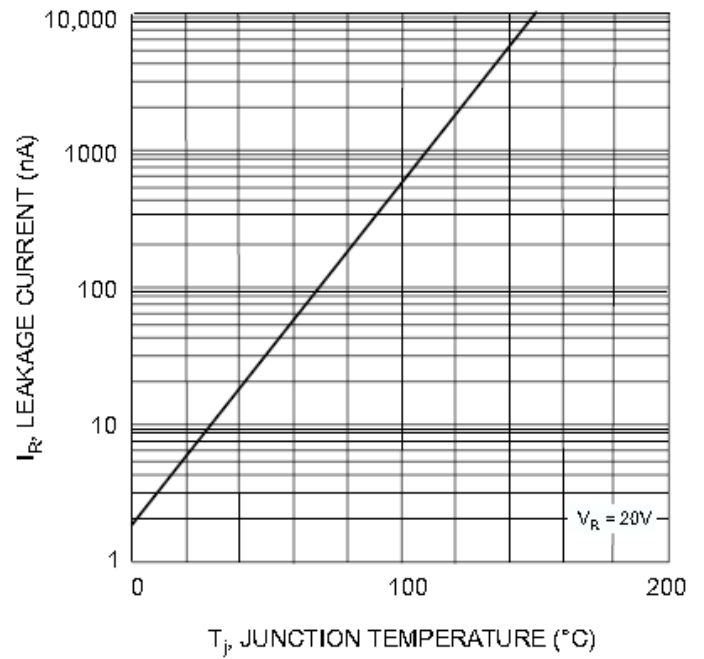


Fig. 2 Leakage Current vs Junction Temperature