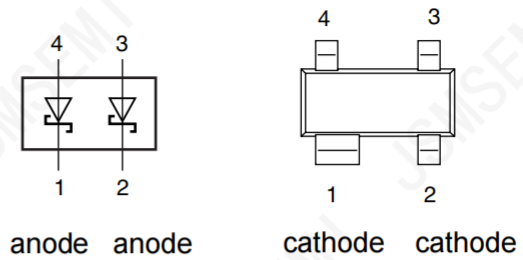


Features

- Low Forward voltage drop
- Fast switching



Maximum ratings@Ta=25°C

Symbol	Parameter	Value	Unit
V_R	DC Voltage	70	V
I_F	Forward Continuous Current	70	mA
I_{FSM}	Non-Repetitive Peak Forward Surge Current @ $t = 8.3ms$	100	mA
P_D	Power Dissipation	200	mW
$R_{\theta JA}$	Thermal Resistance Junction to Ambient	500	°C/W
T_J	Junction Temperature	125	°C
T_{stg}	Storage Temperature	-55~+150	°C

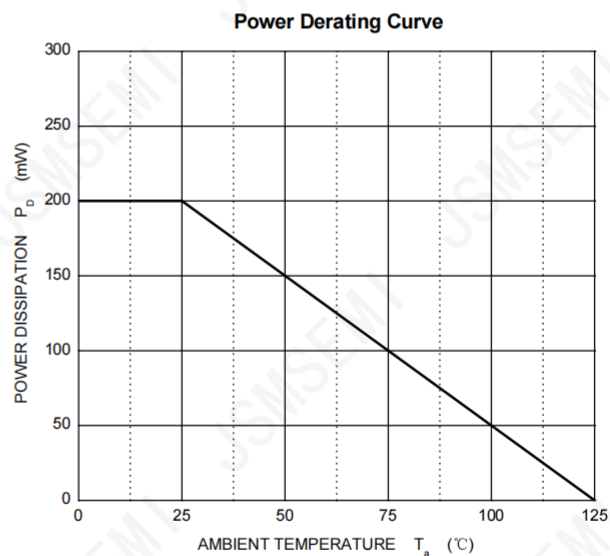
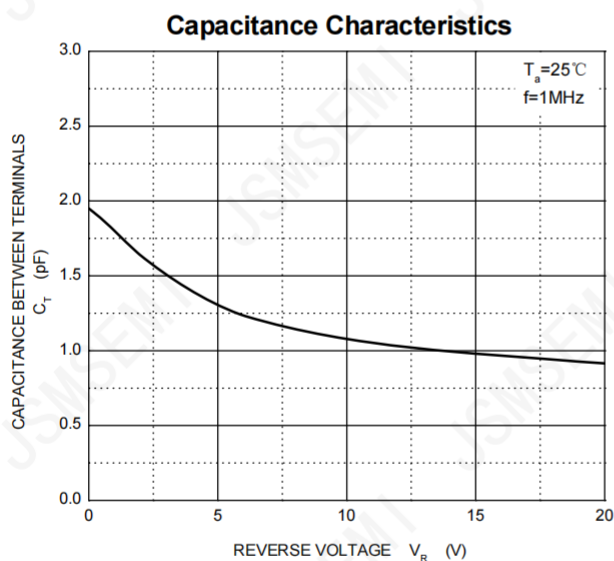
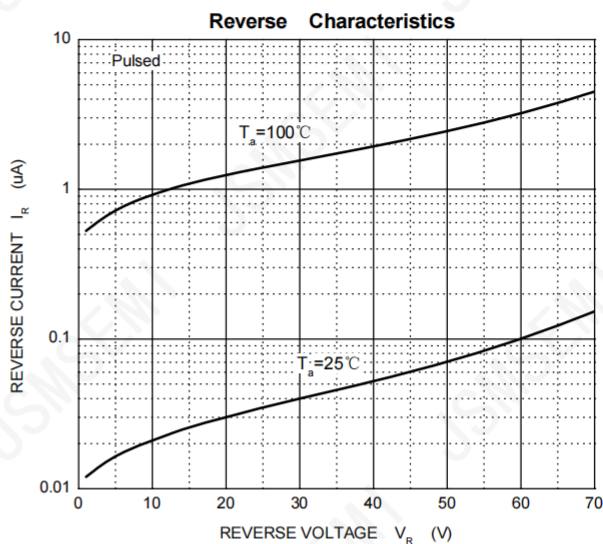
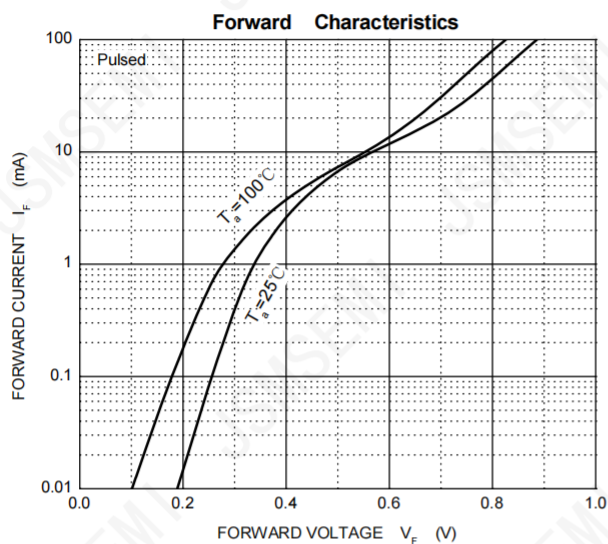
Electrical characteristics(Ta=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	$V_{(BR)}$	$I_R = 10\mu A$	70		V
Reverse voltage leakage current	I_R	$V_R = 50V$		100	nA
Forward voltage	V_F	$I_F = 1mA$ $I_F = 15mA$		410 1000	mV
Diode capacitance	C_D	$V_R = 0V$ $f = 1MHz$		2	pF
Reveres recovery time	t_{rr}	$I_F = I_R = 10mA$, $I_{rr} = 0.1 \times I_R$, $L = 100\Omega$		5	ns

Ordering Information

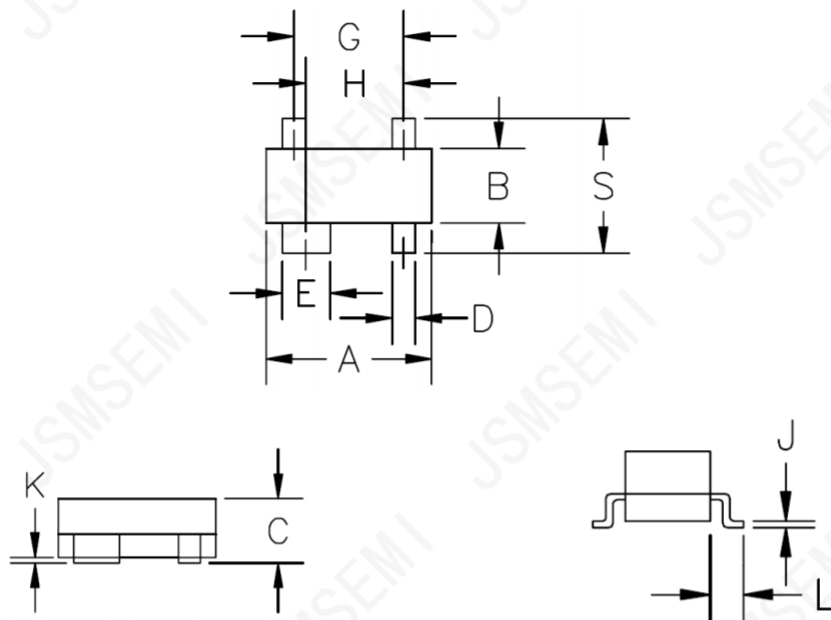
Order number	Package	Marking	Operation Temperature Range	MSL Grade	Ship, Quantity	Green
BAS70-07,215-JSM	SOT-143	77s	-55 to 150°C	3	T&R, 3000	Rohs

Typical Characteristics



Package Outline

SOT-143



DIMENSIONS					
DIMN	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.110	.120	2.80	3.04	—
B	.047	.055	1.20	1.40	—
C	.031	.047	.80	1.20	—
D	.014	.018	.37	.510	—
E	.030	.035	.76	.940	—
G	.076 BSC		1.92 BSC		—
H	.068 BSC		1.72 BSC		—
J	.003	.005	.085	.180	—
K	.002	.005	.013	0.10	—
L	.010	.022	—	.55	REF
S	.082	.104	2.10	2.64	—