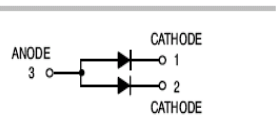
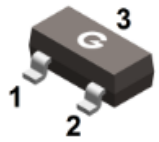
Surface mount switching diode **TBAW56W**

FEATURES

- For high-speed switching applications
- Common anode
- RoHS compliant with Halogen-free
- Qualified to AEC-Q101 Standards

HF





SOT-323

APPLICATIONS

- High speed switching application

ORDERING INFORMATION

Type No.	Marking	Package Code
TBAW56W	KJC	SOT-323

MAXIMUM RATING @ Ta=25℃ unless otherwise specified

Characteristic	Symbol	Limits	Unit
Peak Repetitive Reverse Voltage Working peak reverse voltage DC Reverse Voltage	V_{RRM} V_{RWM} V_R	70	V
Forward Continuous Current	I_F	200	mA
Surge forward Current	I_{FS}	4.5	A
Power Dissipation	P_d	200	mW
Operating Junction Temperature Range	T_j	150	℃
Storage Temperature Range	T_{STG}	-55 to +150	℃

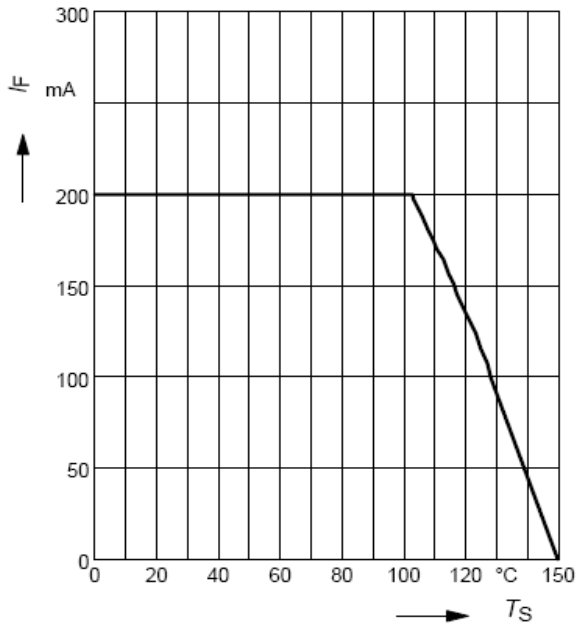
ELECTRICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

Characteristic	Symbol	Min	MAX	UNIT	Test Condition
Reverse Breakdown Voltage	$V_{(BR)R}$	70	-	V	I_R= 100μA
Forward Voltage	V_F	-	715 855 1000 1250	mV	I_F=1mA I_F=10mA I_F=50mA I_F=150mA
Reverse Leakage Current	I_R	-	2.5	μA	V_R=70V
Diode Capacitance	C_D	-	2	pF	V_R=0V,f=1MHz
Reverse Recovery Time	t_{rr}	-	6	ns	I_F=I_R=10mA f=1MHz

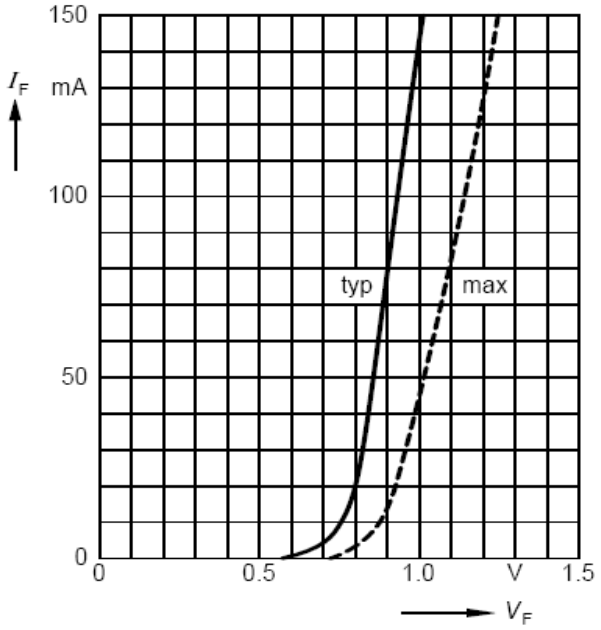
Surface mount switching diode **TBAW56W**

TYPICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

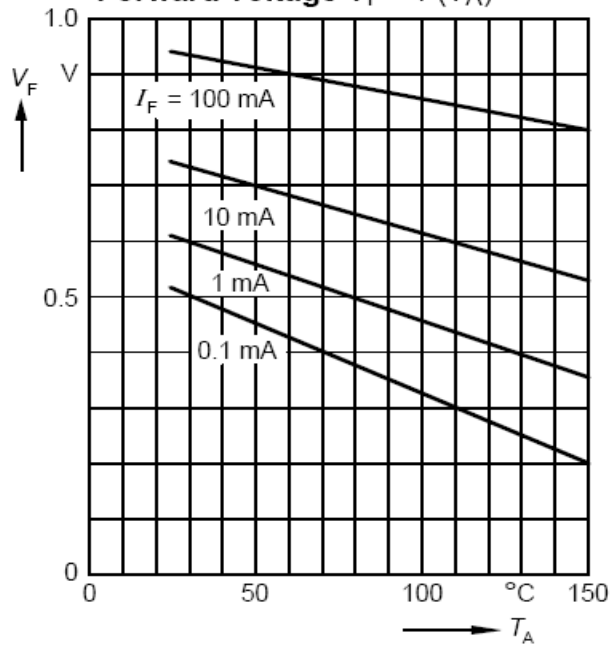
Forward current $I_F = f(T_S)$



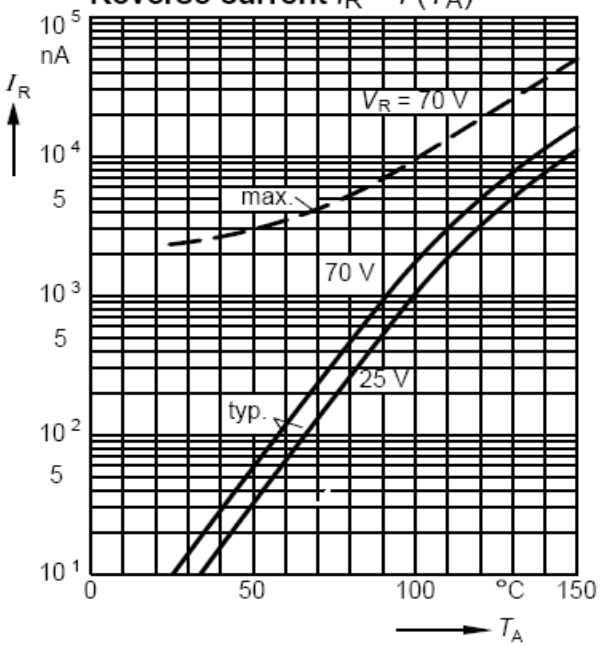
Forward current $I_F = f(V_F)$



Forward voltage $V_F = f(T_A)$



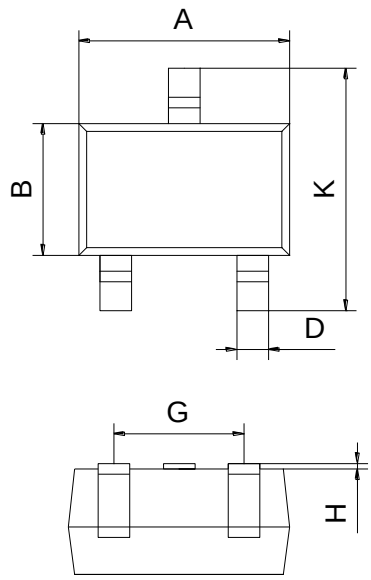
Reverse current $I_R = f(T_A)$



Surface mount switching diode **TBAW56W**

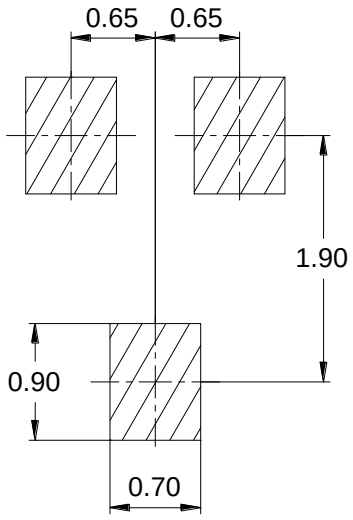
PACKAGE OUTLINE

Plastic surface mounted package SOT-323



SOT-323		
Dim	Min	Max
A	2.00	2.20
B	1.15	1.35
C	0.90	1.10
D	0.15	0.35
E	0.25	0.40
G	1.20	1.40
H	0.02	0.10
J	0.05	0.15
K	2.20	2.40
All Dimensions in mm		

SOLDERING FOOTPRINT



Unit: mm

PACKAGE INFORMATION

Device	Package	Shipping
TBAW56W	SOT-323	3000 pcs / Tape & Reel