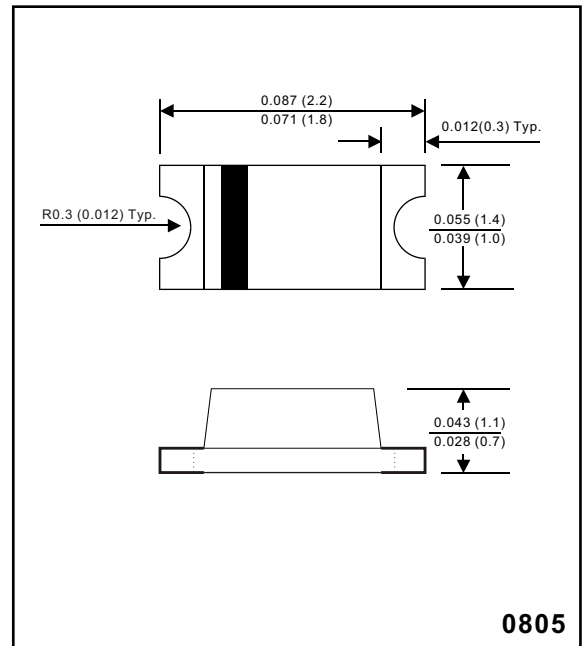


# BAT43WS

Surface mount small signal type

- Extermely thin package
- Low stored charge
- Majority carrier conduction



## Mechanical data

Case : Molded plastic, 0805

Terminals : Solder plated, solderable per MIL-STD-750, Method 2026

Polarity: Indicated by cathode band

Mounting Position : Any

Weight : 0.000159 ounce, 0.0045 gram

## MAXIMUM RATINGS (AT $T_A=25^{\circ}\text{C}$ unless otherwise noted)

PARAMETER	CONDITIONS	Symbol	MIN.	TYP.	MAX.	UNIT
Repetitive peak reverse voltage		$V_{RRM}$			40	V
RMS Reverse voltage		$V_{R(RMS)}$			21	V
Mean rectifying current		$I_O$			100	mA
Forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC methode)	$I_{FSM}$			4.0	A
Power dissipation		$P_d$			200	mW
Capacitance between terminals	f=1MHz and applied 10VDC reverse voltage	$C_T$			10	pF
Storage temperature		$T_J$	-55		+125	$^{\circ}\text{C}$
Operating temperature		$T_{STG}$	-55		+125	$^{\circ}\text{C}$

## ELECTRICAL CHARACTERISTICS (AT $T_A=25^{\circ}\text{C}$ unless otherwise noted)

PARAMETER	CONDITIONS	Symbol	MIN.	TYP.	MAX.	UNIT
Forward voltage	$I_F = 2.0 \text{ mA DC}$	$V_F$	0.26		0.33	V
Forward voltage	$I_F = 15 \text{ mA DC}$	$V_F$			0.45	V
Forward voltage	$I_F = 200 \text{ mA DC}$	$V_F$			1.00	V
Reverse current	$V_R = 25 \text{ V}$	$I_R$			500	nA
Reverse current	$V_R = 25 \text{ V}, T_j = 100^{\circ}\text{C}$	$I_R$			100	$\mu\text{A}$

## RATING AND CHARACTERISTIC CURVES (ASD500V)

FIG.1-TYPICAL FORWARD CHARACTERISTICS

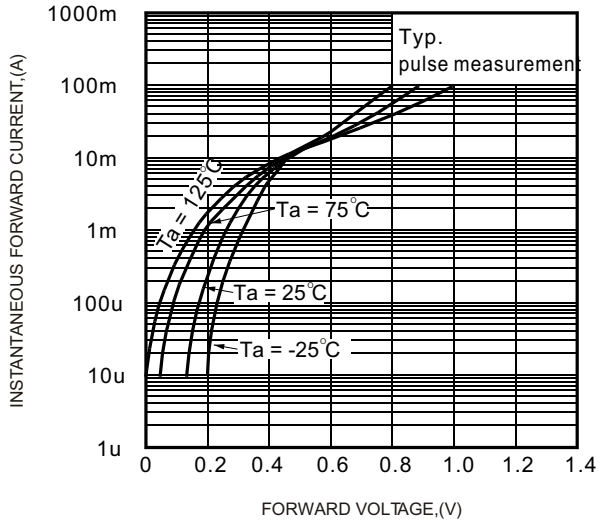


FIG.2 - TYPICAL REVERSE CHARACTERISTICS

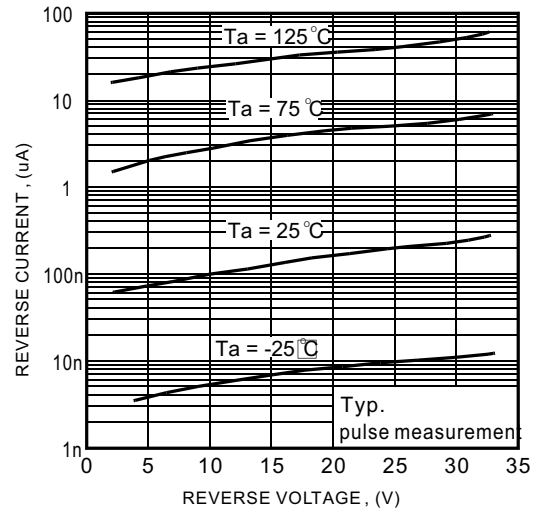


FIG.3-TYPICAL TERMINALS CAPACITANCE

