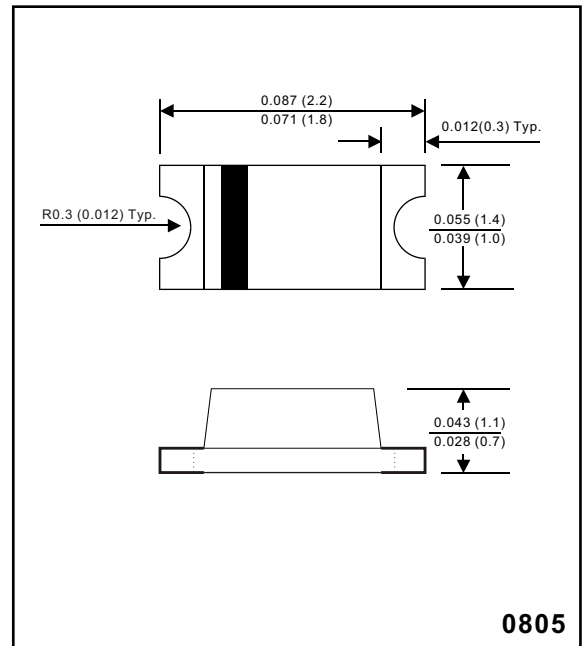


BAT43WS

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	μA

RATING AND CHARACTERISTIC CURVES (ASD500V)

FIG.1-TYPICAL FORWARD CHARACTERISTICS

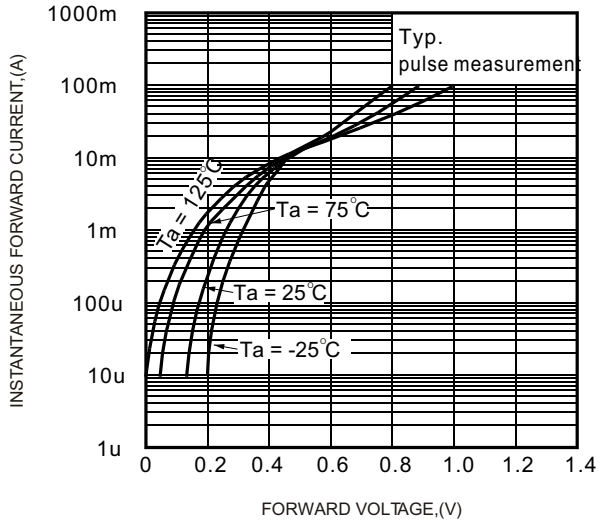


FIG.2 - TYPICAL REVERSE CHARACTERISTICS

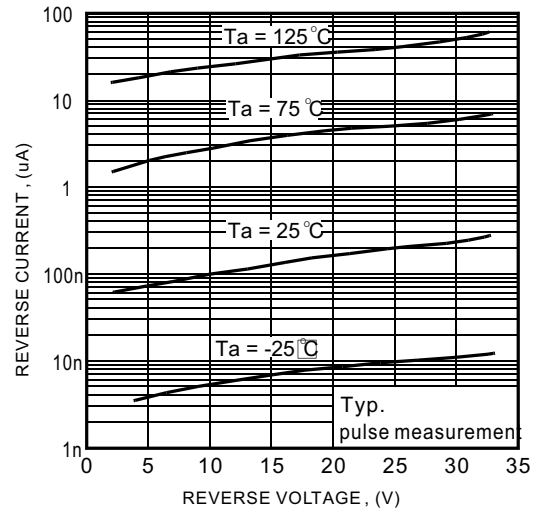


FIG.3-TYPICAL TERMINALS CAPACITANCE

