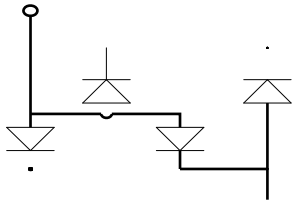
YBSML4006

RoHS
COMPLIANT



■Maximum Ratings (T_a=25 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	YBSML4006
Device marking code			YBSML4006
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	V	600
Maximum RMS Voltage	V_{RMS}	V	420
Maximum DC blocking Voltage	V_{DC}	V	600
Average rectified output current @60Hz sine wave, R-load, Tc=100	I_O	A	4.0
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25	I_{FSM}	A	150
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25			300
Current squared time @1ms≤t≤8.3ms Tj=25 Rating of per diode	I^2t	A^2s	93.4
Storage temperature	T_{stg}		-55 ~ +150
Junction temperature	T_j		-55 ~ +150

■Electrical Characteristics T_a=25 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	Min	Typ	Max
Instantaneous forward voltage drop per diode	V_F	V	I_{FM}=2.0A	0.7	0.87	0.92
DC reverse current at rated DC blocking voltage per diode	I_R	μA	T_j=25	-	0.085	5
			T_j=125	-	25	100
Junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	25	45	65

- Terminal: Plated lead J-STD-002 and JESD22-B
- **Polarity:** As marked on bo

■Thermal Characteristics T_a=25 Unless otherwise specified

PARAMETER		SYMBOL	UNIT	YBSML4006
Typical Thermal Resistance	Between Junction and Ambient	$R_{\theta J-A}$	/W	55
	Between Junction and Lead	$R_{\theta J-L}$		12
	Between Junction and Case	$R_{\theta J-C}$		7

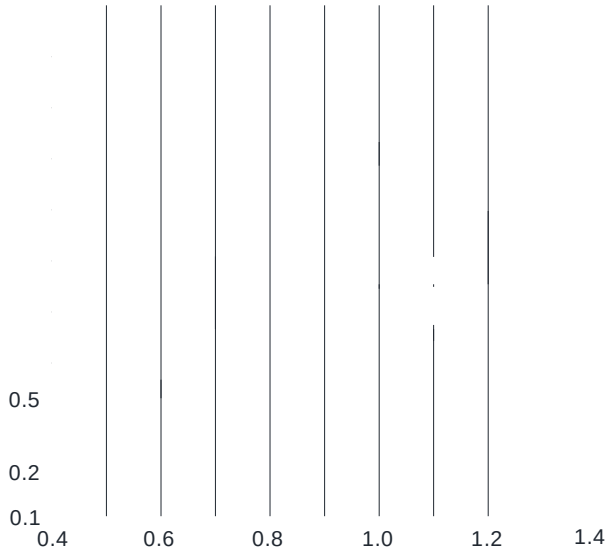
Note: Device mounted on P.C.B with 35mm*25mm*1.7mm.

■Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
YBSML4006	F1	Approximate 0.35	1800	/	25200	13'' Reel

■ Characteristics (Typical)

FIG3: Typical Forward Voltage



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The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportat