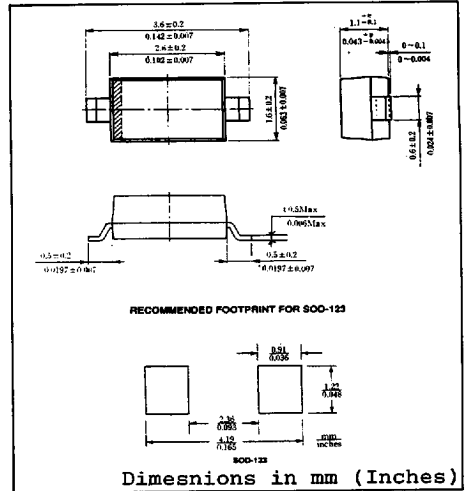
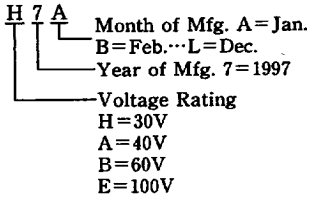


FEATURES

- JEDEC SOD-123 Package
- Very Low profile 1.1mm Max
- High Surge Capability
- Low Thermal Resistance
- UL 94, VO
- Packaged in 8mm tape

Device Marking



Approx. Net Weight : 0.011 Grams

MAXIMUM RATINGS

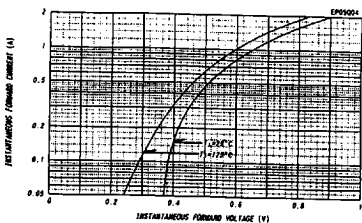
Voltage Rating	Type		EP05Q04	Unit
	Symbol			
Repetitive Peak Reverse Voltage	V_{RRM}		40	V
Non-Repetitive Peak Reverse Voltage	V_{RSM}		—	V
Electrical Rating	Symbol	Condition	Rating	Unit
Average Rectified Output Current	I_o	50Hz half sine wave P.C. Board mounted $T_a = 25^\circ\text{C}$	0.43	A
		50Hz half sine wave $T_\ell = 97^\circ\text{C}$	0.50	
RMS Forward Current	$I_{F(RMS)}$		0.785	A
Peak One-cycle Forward Surge Current	I_{FSM}	50Hz half sine wave, 1 ϕ non-repetitive	8	A
Operating Junction Temperature Range	T_{jw}		-40 to 125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}		-40 to 125	$^\circ\text{C}$

ELECTRICAL & THERMAL CHARACTERISTICS

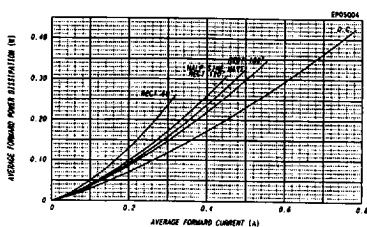
Characteristics	Symbol	Test Condition	Max.	Unit
Peak Forward Voltage	V_{FM}	$I_{FM} = 0.5\text{A}$ $T_j = 25^\circ\text{C}$	0.51	V
Peak Reverse Current	I_{RM}	$V_{RM} = V_{RRM}$ $T_j = 25^\circ\text{C}$	100	μA
Thermal Resistance	$R_{th(j-a)}$	Junction to Ambient, P.C.B. mounted	300	$^\circ\text{C/W}$
	$R_{th(j-\ell)}$	Junction to Lead	70	

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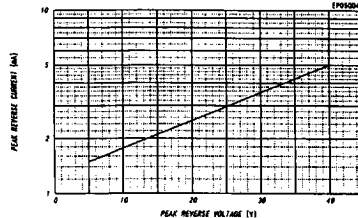
FORWARD CURRENT VS. VOLTAGE



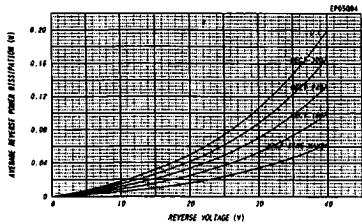
AVERAGE FORWARD POWER DISSIPATION



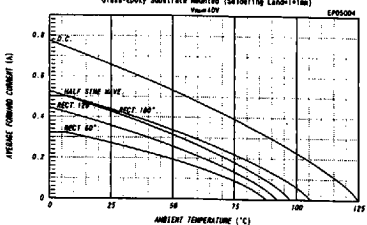
PEAK REVERSE CURRENT vs. PEAK REVERSE VOLTAGE



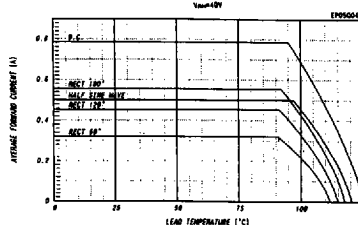
AVERAGE REVERSE POWER DISSIPATION



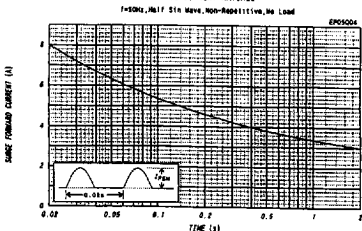
AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE



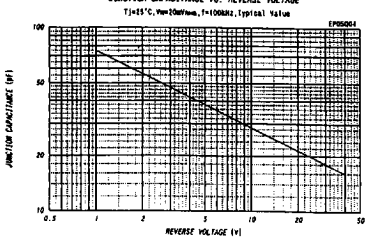
AVERAGE FORWARD CURRENT VS. LEAD TEMPERATURE



SURGE CURRENT RATINGS



JUNCTION CAPACITANCE VS. REVERSE VOLTAGE



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