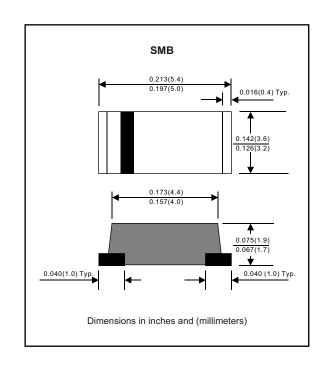
Formosa MS

FM820-B THRU FM840-B

Silicon epitaxial planer type

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O Utilizing Flame Retardant Epoxy Molding Compound.
- For surface mounted applications.
- Exceeds environmental standards of ML-S-19500 / 228
- Low leakage current



Mechanical data

Case: Molded plastic, JEDEC DO-214AA

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

Method 2026

Polarity: Indicated by cathode band

Mounting Position: Any

Weight: 0.00878 ounce, 0.293 gram

MAXIMUM RATINGS (AT TA=25°C unless otherwise noted)

PARAMETER	CONDITIONS	Symbol	MIN.	TYP.	MAX.	UNIT
Forward rectified current	See Fig.1	Io			8.0	Α
Forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC methode)	I _{FSM}			150	A
Reverse current	V _R = V _{RRM} T _A = 25°C	-			5.0	mA
	V _R = V _{RRM} T _A = 100°C	I _R			50	mA
Thermal resistance	Junction to ambient	R JA		55		°C / w
Diode junction capacitance	f=1MHz and applied 4vDC reverse voltage	CJ		700		pF
Storage temperature		T _{STG}	-55		+150	°C

SYMBOLS	MARKING CODE	V _{RRM} *1	V _{RMS} *2	V _R *3	V _F *4	Operating temperature (°C)
FM820-B	SK82	20	14	20		
FM830-B	SK83	30	21	30	0.65	-55 to +125
FM840-B	SK84	40	28	40		

- *1 Repetitive peak reverse voltage
- *2 RMS voltage
- *3 Continuous reverse voltage
- *4 Maximum forward voltage

RATING AND CHARACTERISTIC CURVES (FM820 THRU FM840)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

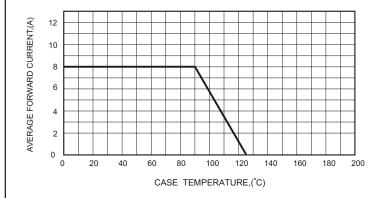


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

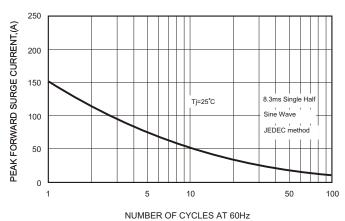


FIG.4-TYPICAL JUNCTION CAPACITANCE

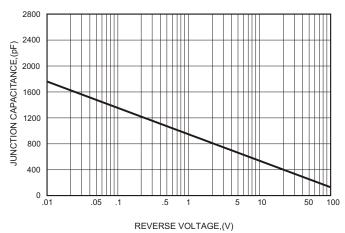


FIG.2-TYPICAL FORWARD

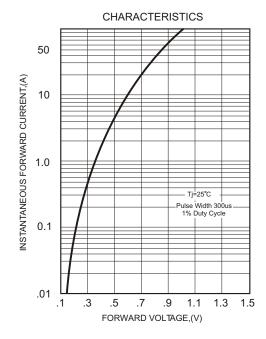


FIG.5 - TYPICAL REVERSE

