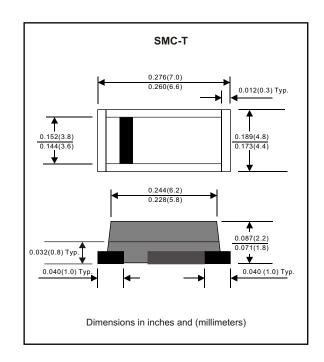
Formosa MS

FM520-T THRU FM5100-T

Silicon epitaxial planer type

Features

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



Mechanical data

Case: Molded plastic, JEDEC DO-214AB

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

Method 2026

Polarity: Indicated by cathode band

Mounting Position : Any

Weight: 0.00585 ounce, 0.195 gram

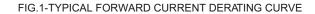
MAXIMUM RATINGS (AT T_A =25°C unless otherwise noted)

PARAMETER	CONDITIONS	Symbol	MIN.	TYP.	MAX.	UNIT
Forward rectified current	See Fig.1	Io			5.0	Α
Forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC methode)	$I_{\it FSM}$			150	А
Reverse current	$V_R = V_{RRM} T_A = 25^{\circ} C$	I_{R}			0.5	mΑ
neverse current	$V_R = V_{RRM} T_A = 125^{\circ}C$	IR IR			50	mΑ
Thermal resistance	Junction to ambient	R JA		15		°C / w
Diode junction capacitance	f=1MHz and applied 4vDC reverse voltage	C _J		380		pF
Storage temperature		T _{STG}	-55		+150	°C

SYMBOLS	MARKING CODE	V _{RRM} *1	V _{RMS} *2	V _{RMS} *2		Operating temperature	
		(V)	(V)	(V)	(V)	(°C)	
FM520-T	SS52	20	14	20		-55 to +125	
FM530-T	SS53	30	21	30	0.55		
FM540-T	SS54	40	28	40			
FM550-T	SS55	50	35	50	0.70		
FM560-T	SS56	60	42	60	0.70	55 to 1150	
FM580-T	SS58	80	56	80	0.85	-55 to +150	
FM5100-T	S510	100	70	100	0.85		

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

RATING AND CHARACTERISTIC CURVES (FM520-T THRU FM5100-T)



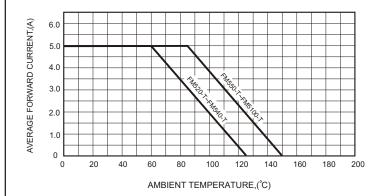


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

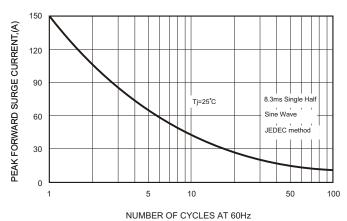


FIG.4-TYPICAL JUNCTION CAPACITANCE

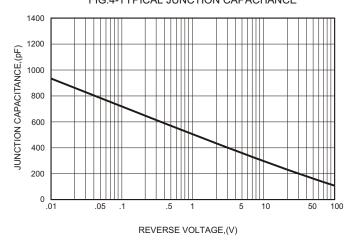


FIG.2-TYPICAL FORWARD

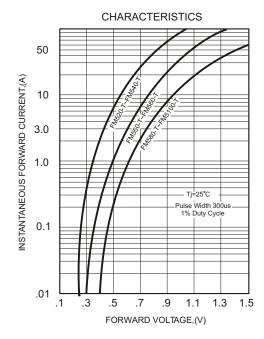


FIG.5 - TYPICAL REVERSE

