

FM5822V-A

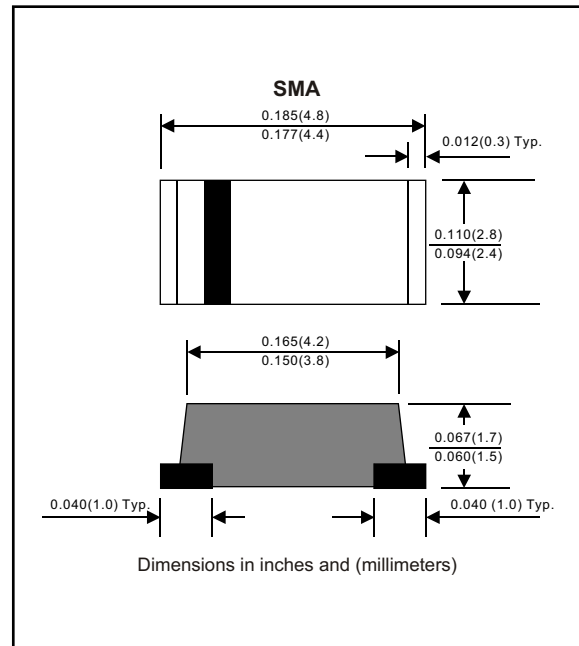
Silicon epitaxial planer type

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 : Moulded plastic, JEDECDO-214AC
 Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
 Polarity : Indicated by cathode band
 Mounting Position : Any
 Weight : 0.0015 ounce, 0.05 gram



MARKING CODE : SK34

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 voltage		V_{RMS}			28	V
Continuous reverse voltage		V_R			40	V
Forward rectified current	Ambient temperature = 80°C	I_O			3.0	A
Forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC methode)	I_{FSM}			80	A
Thermal resistance	Junction to ambient	R_{JA}			55	$^{\circ}\text{C} / \text{w}$
Diode junction capacitance	f=1MHz and applied 4vDC reverse voltage	C_J			250	pF
Operating temperature		T_J	-50		+125	$^{\circ}\text{C}$
Storage temperature		T_{STG}	-50		+150	$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS (AT $T_A=25^{\circ}\text{C}$ unless otherwise noted)

PARAMETER	CONDITIONS	Symbol	MIN.	TYP.	MAX.	UNIT
Forward voltage	$I_F = 1.0$ AMPERE DC	V_F			0.40	V
Reverse current	$V_R =$ Peak reverse voltage $T_A = 25^{\circ}\text{C}$	I_R			0.5	mA
	$V_R =$ Peak reverse voltage $T_A = 100^{\circ}\text{C}$				20	mA

RATING AND CHARACTERISTIC CURVES (FM5822V-A)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

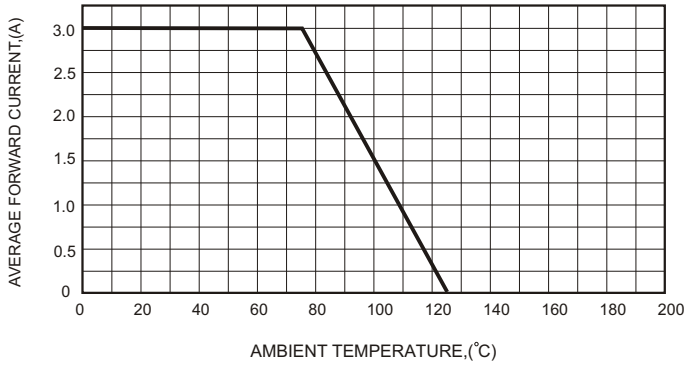


FIG.2-TYPICAL FORWARD CHARACTERISTICS

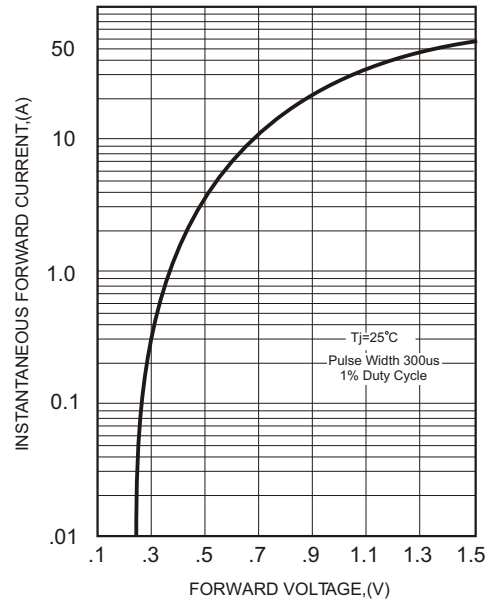


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

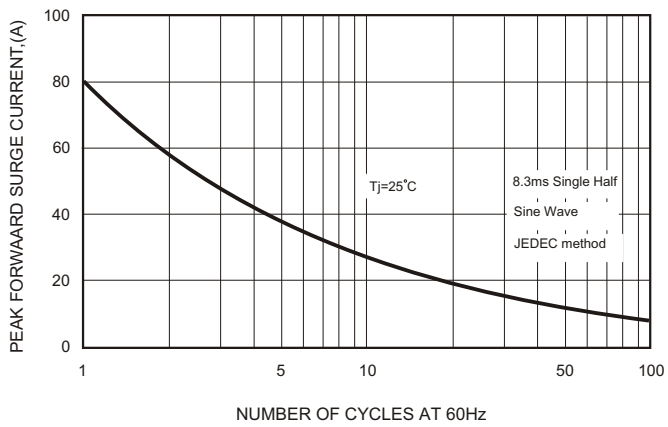


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

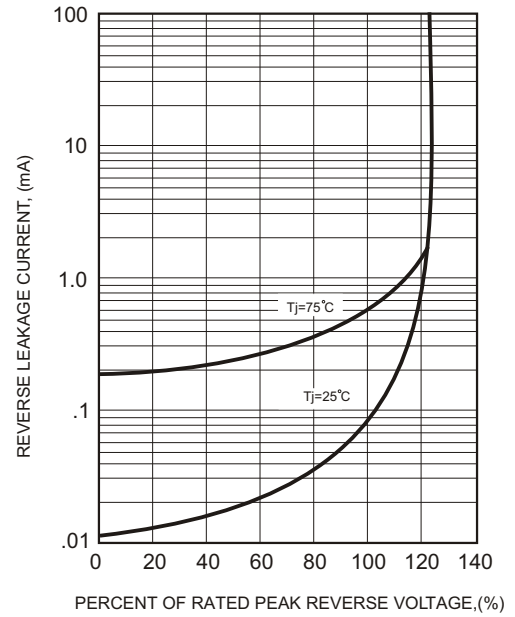


FIG.4-TYPICAL JUNCTION CAPACITANCE

