



FEATURES

- * Batch process design, excellent power dissipation offers better reverse leakage current and thermal resistance.
- * Low profile surface mounted application in order to optimize board space.
- * Low power loss, high efficiency.
- * High current capability, low forward voltage drop.
- * High surge capability.
- * Ultra high-speed switching.
- * Lead-free parts meet environmental standards of MIL-STD-19500/228
- * RoHS product for packing code suffix "G"
- Halogen free product for packing code suffix "H"

MECHANICAL DATA

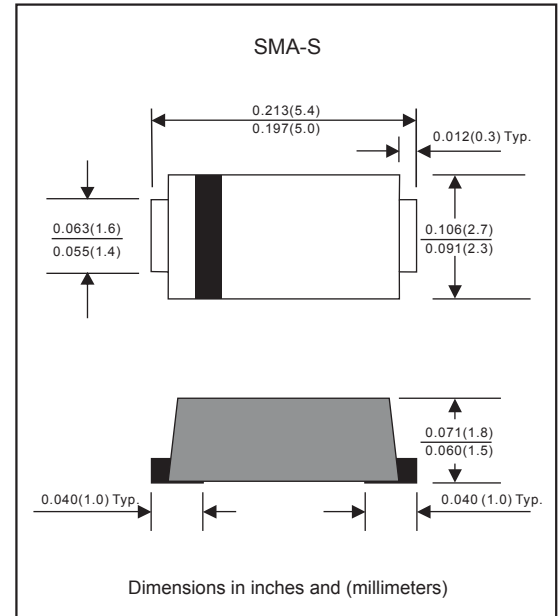
Case: Molded plastic, SMA-S

Epoxy: UL 94V-O rate flame retardant

Terminals: Solder plated, solderable per
MIL-STD-750, Method 2026.

Mounting position: Any

Weight: Approximated 0.05 gram.



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

RATINGS	SYMBOL	PFM320-AS	PFM330-AS	PFM340-AS	PFM350-AS	PFM360-AS	PFM380-AS	PFM3100-AS	PFM3150-AS	PFM3200-AS	UNIT
Marking Code		SK32	SK33	SK34	SK35	SK36	SK38	S310	S315	S320	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	100	150	200	Volts
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	70	105	140	Volts
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	100	150	200	Volts
Maximum Average Forward Rectified Current	I _O	3.0									Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	80									Amps
Typical Thermal Resistance (Note 2)	R _{θJC}	30									°C/W
Typical Junction Capacitance (Note 1)	C _J	250									pF
Operating Temperature Range	T _J	-55 to +125			-55 to +150						°C
Storage Temperature Range	T _{STG}	-55 to +150									°C

CHARACTERISTICS		SYMBOL	PFM320-AS	PFM330-AS	PFM340-AS	PFM350-AS	PFM360-AS	PFM380-AS	PFM3100-AS	PFM3150-AS	PFM3200-AS	UNIT	
Maximum Forward Voltage at 3.0A DC		V _F	0.50			0.70		0.85		0.92		Volts	
Maximum Average Reverse Current at Rated DC Blocking Voltage	@T _J =25°C	I _R	0.5										mAmps
	@T _J =100°C		20										

NOTES:

1- Measured at 1 MHz and applied reverse voltage of 4.0 VDC.

2- Thermal Resistance From Junction to Case.

RATING AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

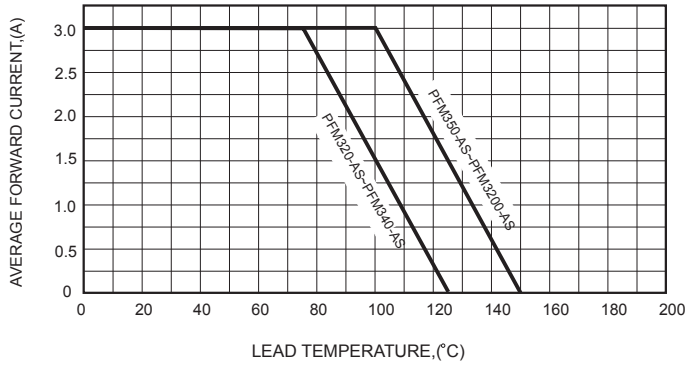


FIG.2-TYPICAL FORWARD CHARACTERISTICS

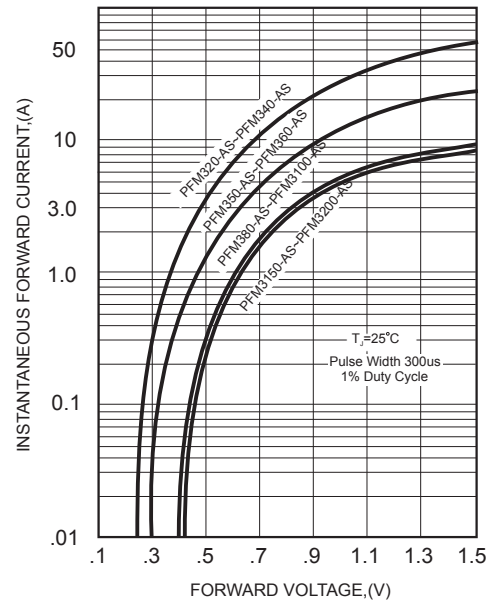


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

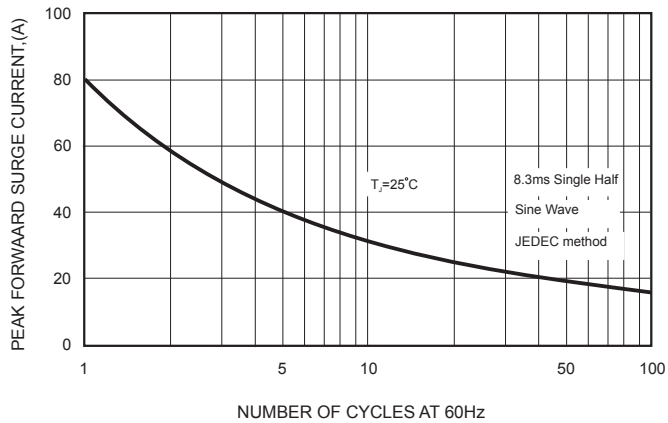


FIG.4-TYPICAL JUNCTION CAPACITANCE

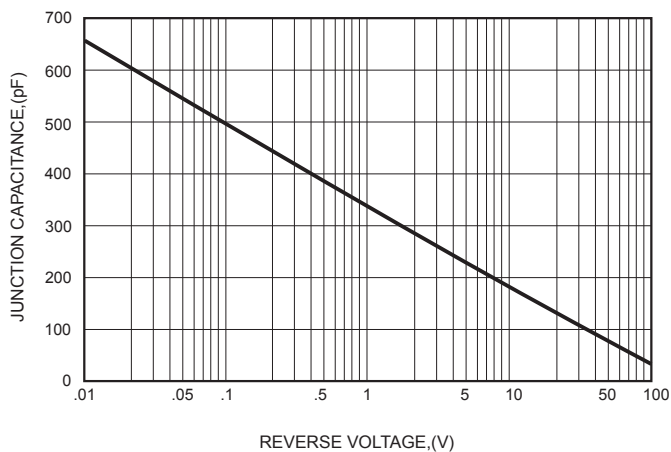


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

