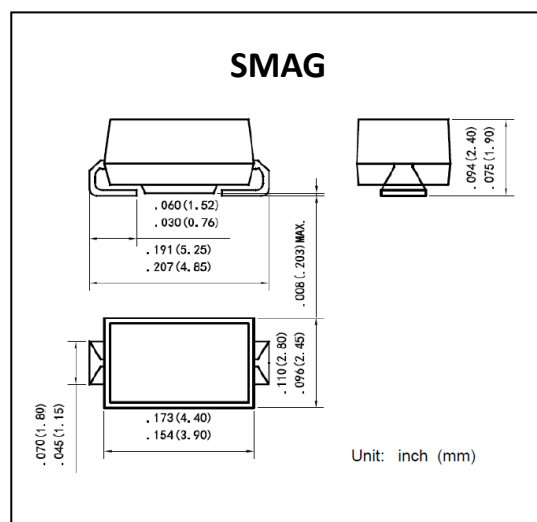


SMAG530S General-purpose Plastic Rectifiers
Feature

- Low Reverse Leakage
- High Forward Surge Capability
- High Reliability


ABSOLUTE MAXIMUM RATINGS ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	3000	V
Maximum RMS Voltage	V_{RMS}	2100	V
Maximum DC Blocking Voltage	V_{DC}	3000	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	0.5	A
Non-Repetitive Peak Forward Surge Current @ $t=8.3\text{ms}$	I_{FSM}	20	A
Typical Thermal Resistance ¹⁾	$R_{\theta JA}$	65	$^{\circ}\text{C}/\text{W}$
Junction Temperature	T_J	-55 ~ +150	$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-55 ~ +150	$^{\circ}\text{C}$

Note:

1) Thermal resistance from junction to ambient , PCB mounted.

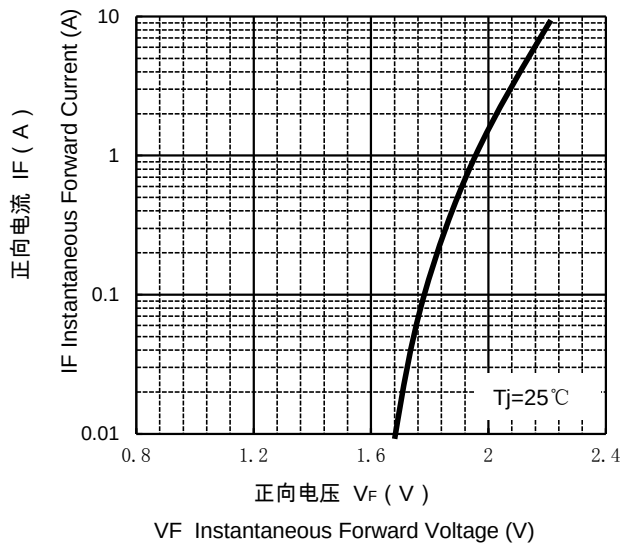
ELECTRICAL CHARACTERISTICS ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Test Condition	Min	Type	Max	Unit
Forward Voltage	V_F	$I_F = 500\text{mA}$			2.2	V
Reverse Current	I_R	$V_R = 3000\text{V}, T_A = 25^{\circ}\text{C}$			5	μA
		$V_R = 3000\text{V}, T_A = 125^{\circ}\text{C}$			300	μA
Junction Capacitance	C_J	$V_R = 4\text{V}, f = 1\text{MHz}$		35		pF

Typical Characteristics

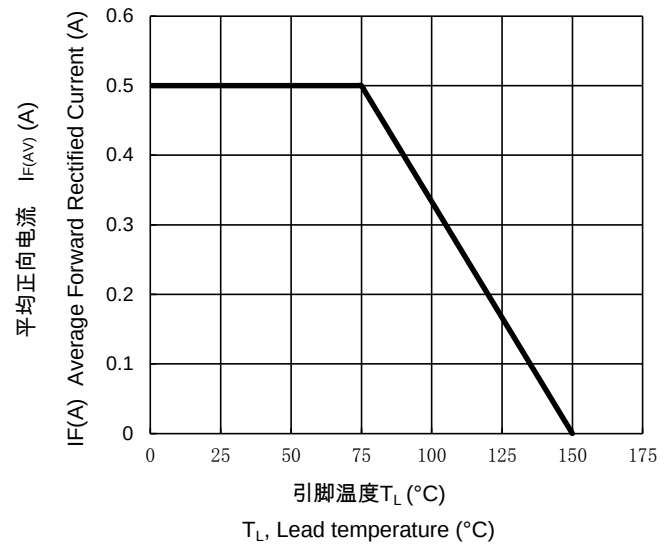
正向特性曲线 (典型值)

TYPICAL FORWARD CHARACTERISTIC



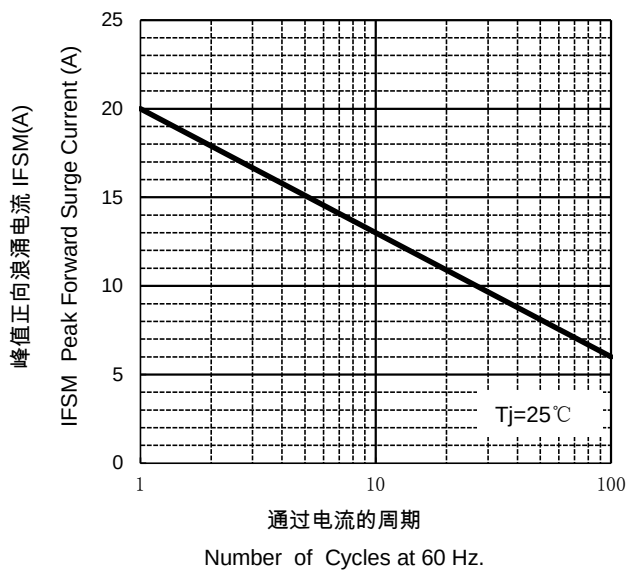
正向电流降额曲线

FORWARD CURRENT DERATING CURVE



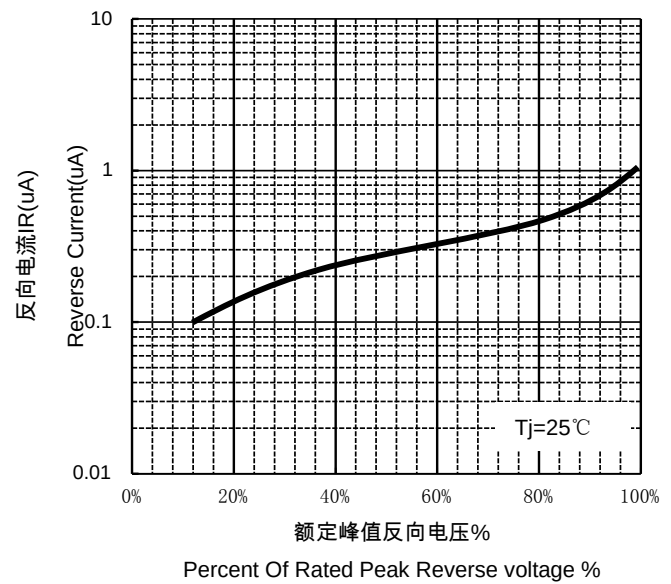
浪涌特性曲线 (最大值)

MAXIMUM NON REPETITIVE
PEAK FORWARD SURGE CURRENT



反向特性曲线

Typical Reverse Characteristics



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