Elektronische Bauelemente

SMP640 ~ SMP6100

Voltage 40 ~ 100 V

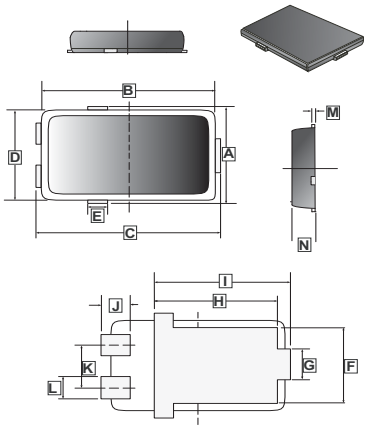
6.0 A Surface Mount Schottky Barrier Rectifiers

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Low leakage
- Low forward voltage drop
- Super long operating life
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0

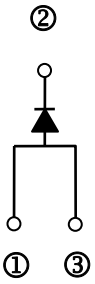
TO-277A



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	4.4	4.8	H	4.05 Typ.	
B	5.9	6.3	J	4.4	4.8
C	6.3	6.7	K	2.0	2.2
D	4.1	4.5	L	1.0	1.4
E	0.65 Typ.		M	0.15	0.35
F	3.55	3.95	N	1.0	1.4
G	1.85	2.25			

PACKAGE INFORMATION

Package	MPQ	Leader Size
TO-277A	4K	13 inch

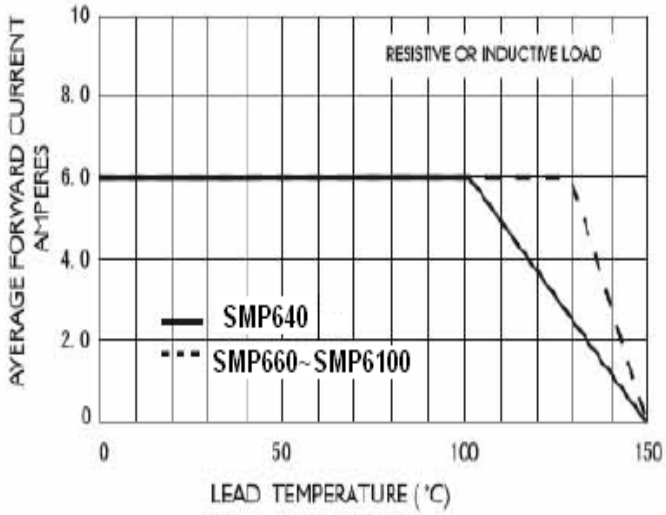
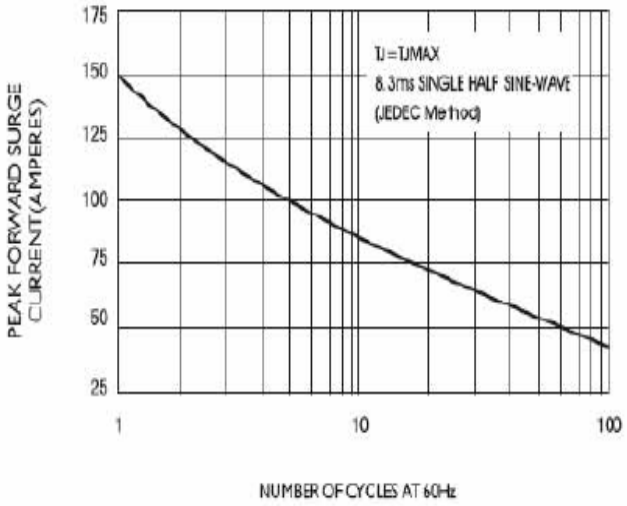
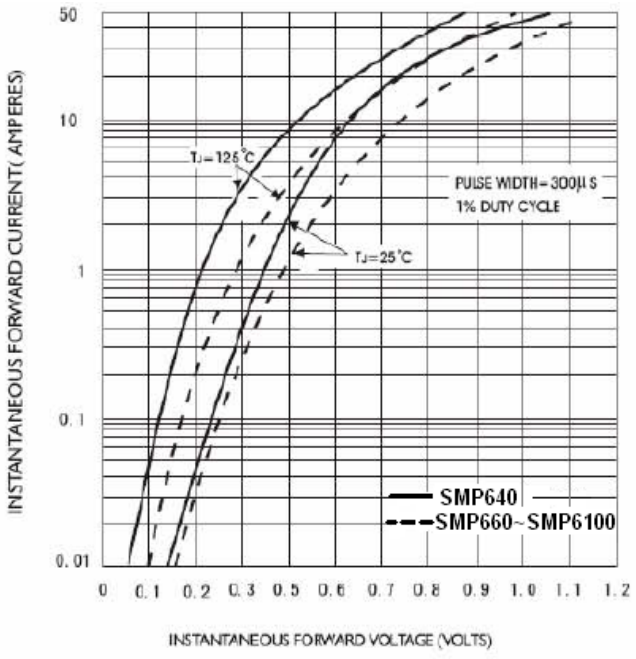
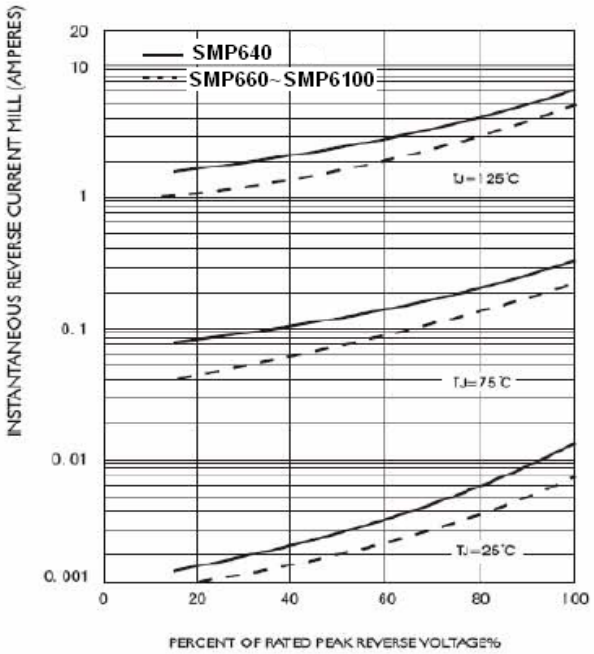


MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, de-rate current by 20%.

Parameters		Symbol	Part numbers			Units
			SMP640	SMP660	SMP6100	
Maximum Repetitive peak Reverse Voltage		V_{RRM}	40	60	100	V
Maximum RMS voltage		V_{RMS}	28	42	70	V
Maximum DC Blocking Voltage		V_{DC}	40	60	100	V
Maximum Forward Voltage@ I_F=6A		V_F	0.55	0.7	0.85	V
Maximum Average Forward Rectified Current @ T_L=90°C		$I_{F(AV)}$	6			A
Peak Forward Surge Current , 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I_{FSM}	150			A
Maximum DC Reverse Current at Rated DC Blocking Voltage	T_J=25°C	I_R	0.5			mA
	T_J=100°C		50	30		
Thermal Resistance junction		$R_{\theta JC}$	3			°C / W
Operating and Storage Temperature Range		T_J ,T_{STG}	-55 ~ 150			°C

Notes :

1. Measured with IF=0.5A, IR=1A, Irr=0.25A

RATINGS AND CHARACTERISTIC CURVES