MOSPEC

HS11 thru HS18

1.0Amp Super Fast Recovery Surface Mounted Rectifiers

FEATURES：

- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed 260°C/10 seconds at terminals
- For surface mounted applications
- RoHS compliant.

SMA

MECHANICAL DATA：

- Case：SMA/DO-214AC,Molded plastic body
- Terminals：Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity：As marking on body

MAXIMUM RATINGS (Ratings at 25 ℃ ambient temperature unless otherwise specified)

Characteristic	Symbol	HS11	HS12	HS13	HS15	HS16	HS17	HS18	Unit
Peak Repetitive Reverse Voltage DC Blocking Voltage	V_{RRM} V_{DC}	50	100	200	400	600	800	1000	V
RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Average Rectifier Forward Current at T_L=100°C	$I_{(AV)}$	1.0							A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	30							A
Maximum instantaneous forward voltage at 1.0A	V_F	1.0			1.4	1.7			V
Maximum DC reverse current at rated DC blocking voltage (T_A=25℃ / T_A=125℃)	I_R	2.0 / 200							uA
Operating temperature (1)	T_{RR}	50				75			ns
Storage temperature range (2)	C_J	20							pF
Typical Thermal resistance, Junction to Ambient	$R_{\theta JA}$	80							℃/W
Operating temperature	T_J	150							℃
Storage temperature range	T_{STG}	-55 to +150							℃

Note : 1.Reverse recovery time test condition: IF=0.5A IR=1.0A Irr=0.25A
2.Measured at 1MHz and applied reverse voltage of 4.0V D.C

RATINGS AND CHARACTERISTICS CURVES

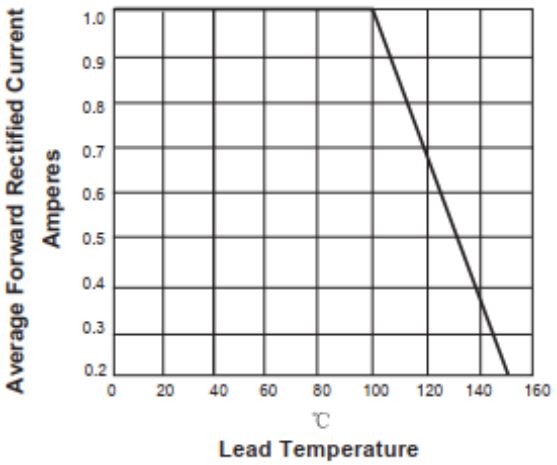


Figure 1. DERATING CURVE OUTPUT RECTIFIED CURRENT

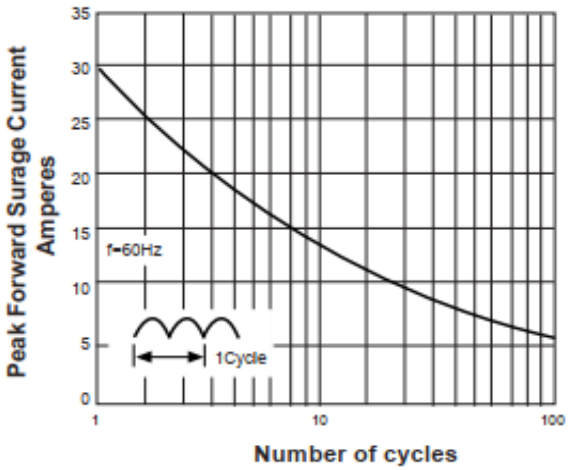


Figure 2. MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

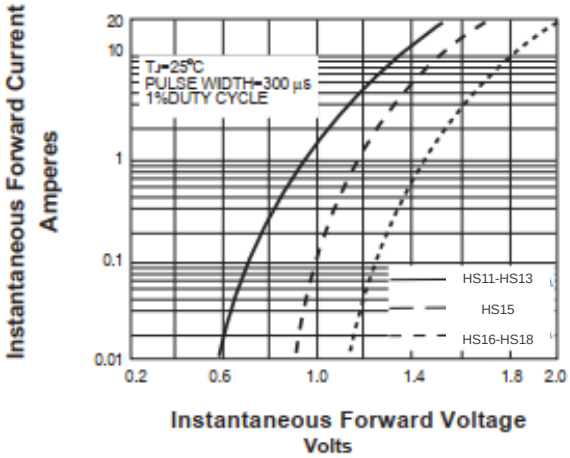


Figure 3. TYPICAL FORWARD VOLTAGE CHARACTERISTICS

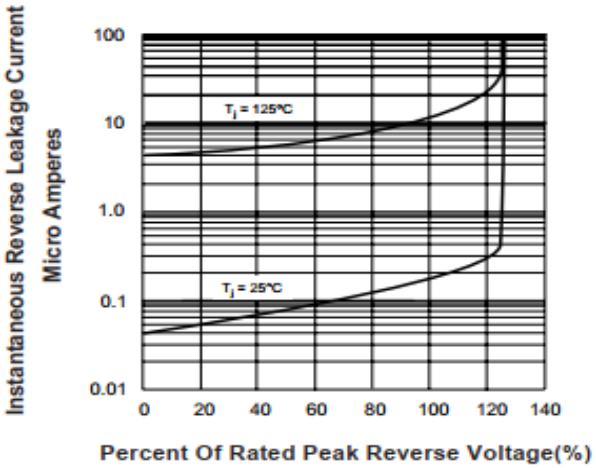
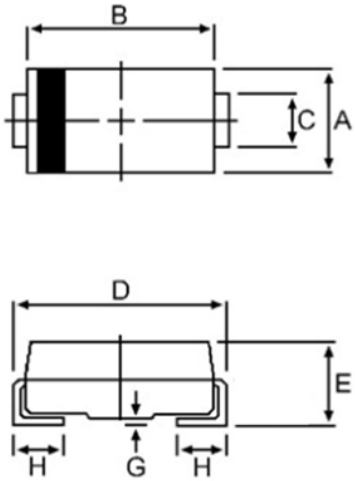


Figure 4. TYPICAL REVERSE LEAKAGE CHARACTERISTICS

• Package outlines : Dimensions in millimeters



DIM	MILLIMETERS	
	MIN	MAX
A	3.30	3.94
B	4.06	4.60
C	1.80	2.20
D	4.90	5.60
E	2.00	2.60
G		0.203
H	0.75	1.55

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