

HVL144AM

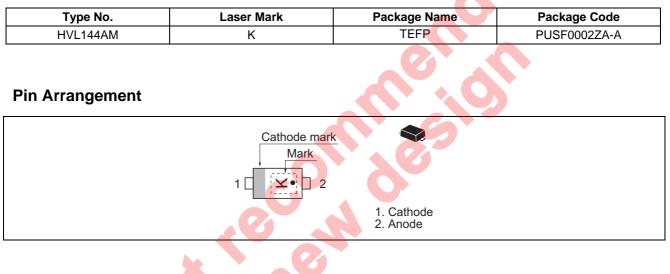
Silicon Epitaxial Trench Pin Diode for Antenna Switching

REJ03G0199-0200 Rev.2.00 Jan 20, 2006

Features

- Adopting the trench structure improves low capacitance.(C = 0.43 pF max)
- Low forward resistance. (rf = $1.8 \Omega \text{ max}$)
- Low operation current.
- Thin Extremely small Flat Lead Package (TEFP) is suitable for surface mount design.

Ordering Information





Absolute Maximum Ratings

			$(Ta = 25^{\circ}C)$	
Item	Symbol	Value	Unit	
Reverse voltage	V _R	30	V	
Forward current	I _F	100	mA	
Power dissipation	Pd	100	mW	
Junction temperature	Тј	125	°C	
Storage temperature	Tstg	-55 to +125	°C	

Electrical Characteristics

 $(Ta = 25^{\circ}C)$

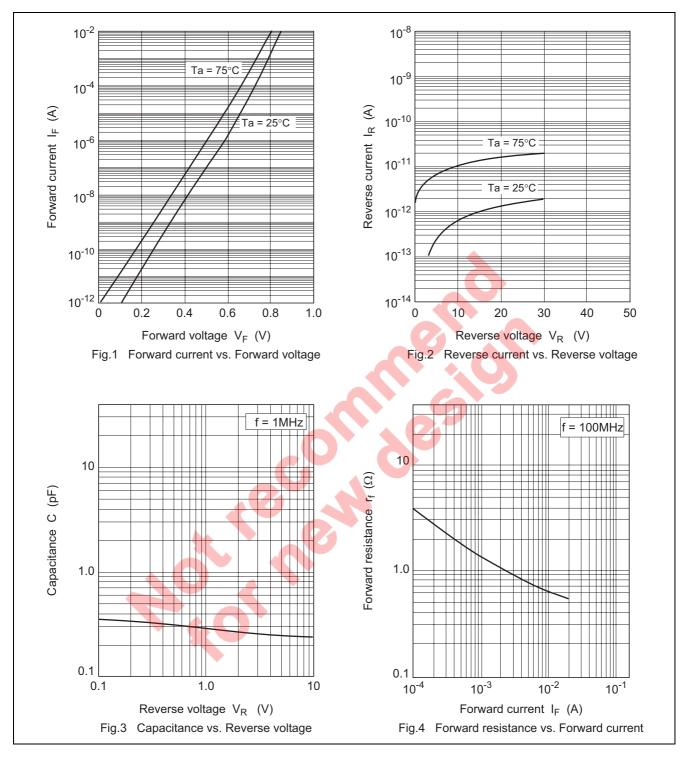
Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I _R	_	-	100	nA	V _R = 30 V
Forward voltage	V _F	_	-	0.90	V	$I_F = 2 \text{ mA}$
Capacitance	С	_		0.43	pF	$V_R = 1 V$, f = 1 MHz
Forward resistance	r _f	_	-	1.80	Ω	I _F = 2 mA, f = 100 MHz
ESD-Capability *1	—	100			V	$C = 200 \text{ pF}, R = 0 \Omega$, Both forward
						and reverse direction 1 pulse.

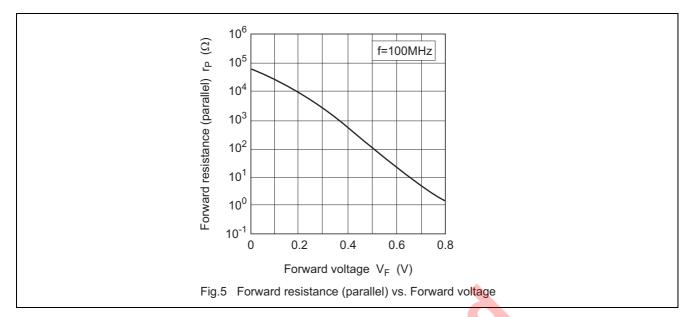
Notes: 1. Failure criterion ; $I_R > 100 \mbox{ nA}$ at V_R = 30 V

2. For TEFP package, the material of lead is exposed for cutting plane. There for, soldering nature of lead tip part is considered as unquestioned. Please kindly consider soldering nature.

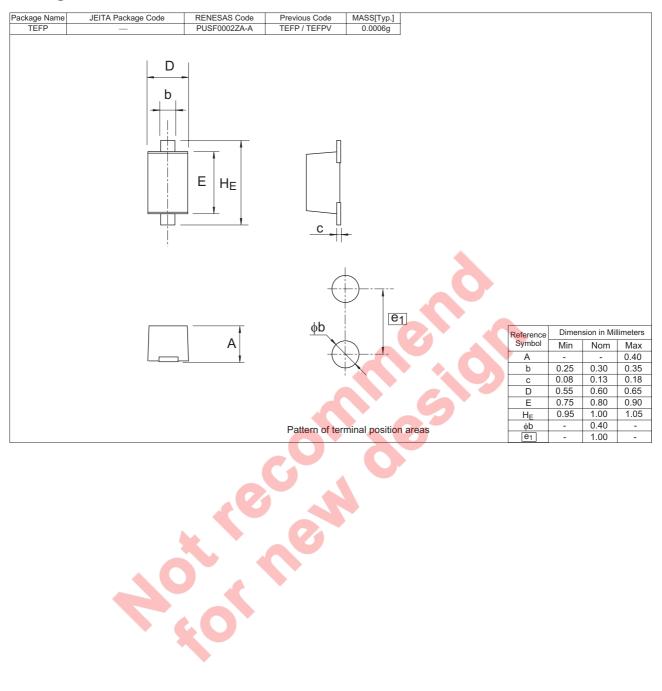


Main Characteristic





Package Dimensions



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