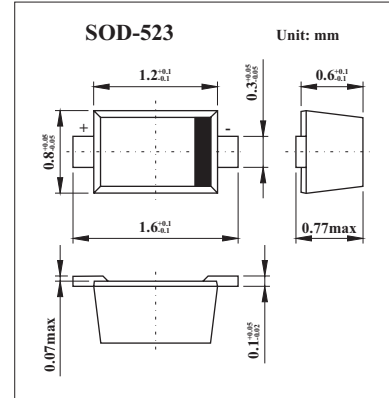


# HVC145

### ■ Features

- An optimal solution for antenna switching in mobile phones.
- Low capacitance. (C = 0.45 pF max)
- Low forward resistance. ( $r_f = 1.8 \Omega$  max)



### ■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Value	Unit
Reverse voltage	$V_R$	60	V
Forward current	$I_F$	50	mA
Power dissipation	$P_d$	150	mW
Junction temperature	$T_j$	125	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-55 to +125	$^\circ\text{C}$

### ■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse current	$I_R$	$V_R = 60\text{ V}$			100	nA
Reverse voltage	$V_F$	$I_F = 2\text{ mA}$			0.9	V
Capacitance	C	$V_R = 1\text{ V}, f = 1\text{ MHz}$			0.45	pF
Forward resistance	$r_f$	$I_F = 10\text{ mA}, f = 100\text{ MHz}$			1.8	$\Omega$
ESD-Capability *1		C = 200pF, Both forward and reverse direction 1 pulse	100			V

Note

1. Failure criterion ;  $I_R > 100\text{ nA}$  at  $V_R = 60\text{V}$ .

### ■ Marking

Marking	T5
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