

Repetitive Avalanche and dv/dt Rated MOSFET Transistor P-Channel

2N7522

**200Volt, 0.505 W, RAD Hard MOSFET
Package: SMD-0.5**

R5

Product Summary

Hex Size	Technology	BV _{DSS}	R _{DS(on)}	I _D
3	RAD Hard	-200V	0.505 Ω	-8.0A

Absolute Maximum Ratings

Parameter	Value	Units
I _D @ V _{GS} = -12V, T _C = 25°C	-8.0	A
I _D @ V _{GS} = -12V, T _C = 100°C	-5.0	A
P _D @ T _C = 25°C	75	W
V _{GS}	±20	V
E _{AS}	75	mJ
I _{AR}	-8.0	A
E _{AR}	7.5	mJ
T _J	-55 to 150	°C

Pre-Irradiation

Electrical Characteristics @ T_J = 25°C (Unless Otherwise Specified)

Parameter	Min	Typ.	Max	Units	Test Conditions
BV _{DSS}	-200	-	-	V	V _{GS} =0V, I _D =-1.0mA
R _{DS(on)}	-	-	0.505	Ω	V _{GS} =-12V, I _D =-5.0A
V _{GS(th)}	-2.0	-	-4.0	V	V _{DS} =V _{GS} , I _D =-1.0mA
I _{DSS}	-	-	-10	μA	V _{DS} =-160V, V _{GS} =0V
I _{DSS}	-	-	-25	μA	V _{DS} =-160V, T _J =125°C
I _{GSS}	-	-	-100	nA	V _{GS} =-20V
I _{GSS}	-	-	100	nA	V _{GS} =20V
Qg	-	-	43	nC	V _{GS} =-12V, I _D =-8.0A

Thermal Resistance

Parameter	Min	Typ.	Max	Units	Test Conditions
R _{thJC} Junction-to-Case	-	-	1.67	°C/W	